AGRICULTURAL OUTUOOK

Economic Research Service United States Department of Agriculture

Mary Branch

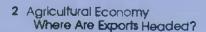
March 1991

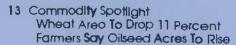
Asia's Changing
Markets
Callfornia Copes
with Drought

March 1991/AO-172

AGRICULTURAL OUTLOOK

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Indicators of Farm Productivity

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News Of Early Planting Intentions, Farm Credit, Food Prices, Soviet Reform, China's Grain Crops, and East Asian Markets

ccording to a special early-season survey, U.S. farmers intend to plant 4 percent more corn, 1 percent more soybeans, 2 percent more rice, 18 percent more cotton, 19 percent more sorghum, and 36 percent more sunflowers this spring than in 1990. However, spring wheat area will slip 13 percent, farmers said. For the first time, the shifts reflect farmers' expectations of prices and costs under the new flexibility provisions of the 1990 farm act.

Combined with a 10-percent drop in winter seedings last fall, total wheat area likely will be down 11 percent. Spring wheat area will be down proportionately more because spring wheat producers will take greater advantage of flexibility provisions to plant other crops. And wheat output probably will decline more than area would suggest because farmers are not expected to harvest as much of planted area as last year and yields probably will not match 1990's record.

California's drought may keep some farmers from reaching their early intentions—especially for cotton and rice. The state is the second largest producer of both crops. Growers there are enduring one of the state's longest and most severe droughts. And this year has been among the driest ever.

Among California livestock producers, those with forage-based operations will be hit the hardest. Output of many field and forage crops will be down sharply and prices will rise. Still, the state's production of fruits and vegetables is expected to be near normal because some water will be diverted from field crops, and many growers depend on groundwater and water from the Colorado River Basin.

Farm lenders, most notably commercial banks, are showing signs of excess capacity. Creditworthy farmers wishing to



expand will be able to secure financing on more favorable terms than last year.

However, farmers remain cautious about taking on additional debt. Adjusted for inflation, U.S. land values have been stable and farm income is forecast to decline slightly this year. Moreover, planted area is expected to remain fairly steady while livestock supplies probably will show mild growth. So, in real terms, farmers as a group will use less credit in 1991 than a year earlier. Nominal farm debt may rise, though.

U.S. retail food prices are expected to rise 2-5 percent in 1991. That's unchanged from USDA's first forecast released late last November. The forecast is consistent with the current economic contraction, the Gulf war, and the freeze-damaged California fruit crops. But a deepening of the California drought would add some uncertainty.

For the Soviet Union, progress toward substantial reform of the economy has stalled. There is strong broad-based resistance to radical changes that would move the nation to a market system. With market reformers in retreat, a reassertion of central control appears inevitable.

There is little reason to expect much improvement in Soviet agricultural production, though recent proposed retail price increases would reduce the amount demanded. This would point to a modest decline in Soviet agricultural imports. Moreover, if the USSR's general economic situation continues to deteriorate, forecasts of Soviet imports based on the nation's supply and use trends are likely to be too high.

China produced back-to-back record grain crops during the past 2 years after launching an all-out effort to revive output. The reforms involved raising procurement prices, recentralizing input distribution, and issuing orders regarding production. The bumper crops mean China has been able to cut wheat imports and—to the detriment of U.S. exports to Asia—boost corn exports. However, China's government foresees grain output leveling off this year.

East Asian agricultural trade will post strong gains in the 1990's, and the composition is likely to shift as well. The move toward more high-value imports—meats, fruits, vegetables, and processed foods—and away from purchases of grains, cotton, and hides, is expected to accelerate as the decade progresses.

However, some substantial trade barriers will continue to limit East Asia's trade growth in the 1990's. Japan, Korea, Taiwan, and Hong Kong currently account for almost twice the EC's share of U.S. agricultural exports.



Where Are Exports Headed?

hen people debate farm bills, they focus on how changing U.S. policies will affect U.S. farmers. But compared with the rest of the U.S. economy, agriculture is more closely linked to world markets, and exports have a big impact on the health of the sector. Yet foreign demand and supply, which help determine U.S. agricultural exports, are mostly beyond the control of U.S. farm legislation.

Take wheat exports. They fell during the first half of the 1980's, reaching a 14-year low of roughly 900 million bushels in 1985/86. The decline was caused in large part by weak world demand, expanding EC production and export subsidies, a strengthening U.S. dollar, and high U.S. loan rates.

The 1985 farm act made U.S. agriculture more market oriented and expanded government export programs. Lower loan rates substantially lowered the floor on U.S. export prices, and the Export Enhancement Program made it possible for the U.S. to counter EC subsidies in critical markets. And output among competing exporters dropped while global

import demand rose. U.S. wheat exports then surged, gaining 76 percent between 1985/86 and 1987/88.

But this year, wheat exports are down more than one-third from their 1987/88 peak. Good weather worldwide has cut global import demand and increased competitor supplies, sharply curtailing U.S. exports despite much larger supplies.

U.S. export programs are helping to maintain shipments and counter the effects of EC subsidies. But subsidies, which now exceed one-third of the cost of wheat for sales to some markets, do not greatly change the picture of weak world demand.

So while sound U.S. agricultural and trade policies are necessary for increasing exports and a healthy farm sector, they are not sufficient. The fortunes of U.S. farmers during the 1990's will depend heavily on foreign policies affecting export supply and import demand, on foreign production, on global macroeconomic conditions, and on the value of the dollar.

Macro Factors Are Critical

U.S. agricultural exports tend to do best when foreign economic growth is strong and the dollar is weak. Conversely, when the world is experiencing an economic slump and debt burdens are heavy, trade tends to slip.

The 1970's illustrated the importance of macroeconomic conditions in boosting the health of U.S. agriculture. Back then, many developing countries benefited from ballooning credit, which made their economies grow faster than those of the industrialized world. Combined with the falling dollar, this growth surge helped to more than quadruple the value of U.S. agricultural exports.

In contrast, the 1980's showed that exports can easily be stifled by unfavorable conditions. The early 1980's were characterized by a global economic slump, high oil prices, heavy debt burdens in the developing countries, and an appreciating dollar. These factors,

together with uncompetitive domestic farm policies, contributed to a 40-percent drop in the value of U.S. agricultural exports.

Like the 1980's, the 1990's started off with higher oil prices and a global economic slowdown. However, many forecasts predict solid growth by 1992, which should improve the export environment. These forecasts are based on assumptions of modest increases in oil prices, a short war in the Gulf, and less inflation and debt in the developing countries.

What actually happens to U.S. exports will depend in part on the pace of economic recovery. A protracted war, or prolonged higher oil prices, likely would restrain U.S. agricultural exports because of slower economic growth and larger debt abroad.

Some factors could help offset any downward export pressure. For example, if the economic recovery occurs slowly, efforts to reduce U.S. interest rates would further lower the value of the dollar, encouraging exports.

The developing economies are expected to be the largest source of demand growth for U.S. agricultural exports this decade. These countries have rapidly growing populations, and in many cases are experiencing an economic rebound. Debt reduction is key for them because it would boost economic growth and trade.

Centrally Planned Economies Are Major Question Marks

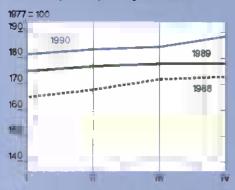
Historically, the centrally planned economies have been a major source of agricultural trade growth. For wheat, the USSR and China have accounted for about one-third of U.S. exports since 1987. A large part of U.S. export growth over the last two decades has stemmed from the inefficiency and waste of socialist agricultural systems. However, policies in all of these countries are now in the midst of profound changes.

March 1991

Prime Indicators

Agricultural Economy

index of prices paid by farmers



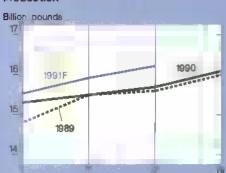
Index of prices received by farmers1



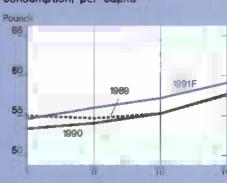
Ratio of prices received/prices paid



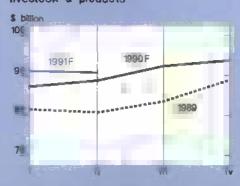
Total red meat & poultry Production²



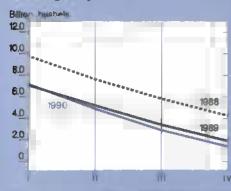
Red meat & poultry Consumption, per Capita^{2,3}



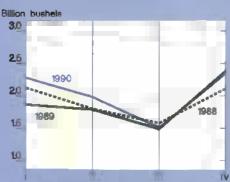
Cash receipts from livestock & products4



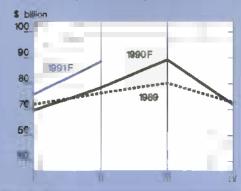
Corn beginning stocks⁵



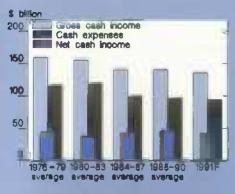
Corn disappearance⁵



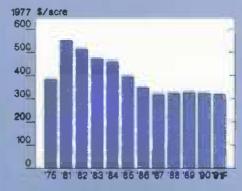
Cash receipts from crops4



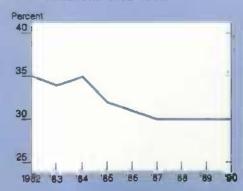
Real cash income⁶



Average real value of farm real estate



Farm value/retail food costs



*For all farm products: ** **Calendar quarters Future quarters are forecasts for livestock, corn, and cash receipts: ***Setal weight. *Seasonally adjusted annual rate. To learn how to use OCR and PDF Compression visit our website

Successful market-oriented reforms in the Soviet Union could lead to a substantial decline in its imports, particularly of wheat. Stronger producer incentives would raise output and cut waste. However, the protein deficiency in the livestock sector should mean stronger imports of oilseeds and meals. Yet the prospects for reform are dim in spite of the recently proposed retail price hikes (see the Special-Article on the Soviet Union).

But reform is moving ahead in Eastern Europe. Poland has already freed agricultural commodity prices and Hungary is moving in that direction. Food rationing and subsidized consumer prices are on the way out, pushing down consumption.

Economies throughout the region are contracting, putting severe short-run pressures on farmers. One response, already evident in Poland, is a call for high support prices and managed agriculture similar to that of the EC. A move in this direction, away from a free market orientation, could mean larger grain production and export competition for the U.S., particularly for wheat.

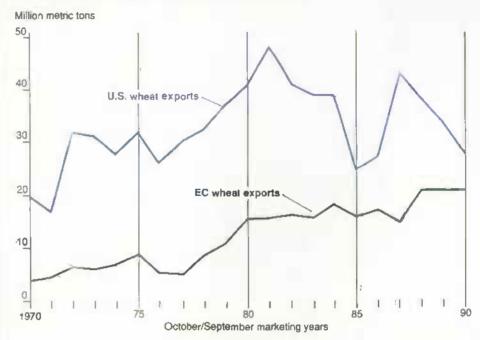
Agricultural reforms have been underway in China for more than a decade, and supply growth has slowed while demand continues to expand. Even though a record 1990 harvest has sharply depressed grain imports. China is expected to need substantially larger wheat imports by the end of the 1990's. China's exports of corn, soybeans, and soybean meal should also taper off.

The reform process in China has stalled out and controls still hold down retail prices. The leadership is backsliding, returning to more intervention (see the World Ag & Trade Department).

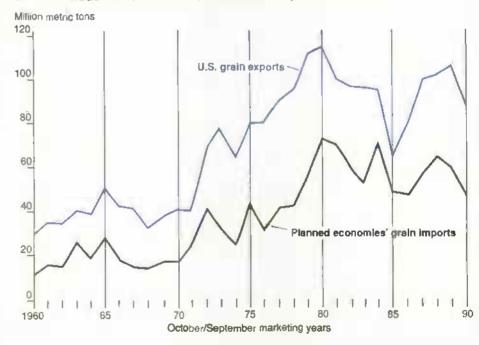
Freer Trade Would Have Sharp Impacts

If a major free trade agreement is reached in the 1990's, the world trading system would change dramatically. The U.S., which accounts for about 25 percent of the world's agricultural trade volume, would realize some of the largest benefits. However, such an agreement





U.S. Grain Trade is Tied to Planned Economies' Imports



depends primarily on the willingness of U.S. trading partners to negotiate.

Japan's recent liberalization of beef imports shows how freer trade can change U.S. exports. Because of greater meat imports, Japan's com imports from the U.S. have leveled off. Yet U.S. beef

exports to Japan increased 15 percent in just a year. About 70 percent of U.S. beef and veal exports now head for Japan (see the Special Article on East Asia).

With a global free trade agreement, the composition and volume of U.S. exports would change even more sharply. For

EC Ag Spending To Surge

The EC is expected to spend a record 33 billion ECU (\$46.2 billion) for agricultural support in 1991, up 31 percent from last year. This does not include outlays for structural improvements, which amounted to 2.1 billion ECU (\$2.9 billion) in 1990, or expenditures by individual member states, estimated to be in excess of 10 billion ECU (\$14 billion).

Market support costs for this year probably will breach the budget guidelines set at the 1988 EC Summit. The guidelines limit the annual growth rate in support spending to 74 percent of the growth rate in the Community's GNP.

Reasons why outlays are jumping this year include:

- The inability of EC policies to adequately control surpluses.
- Weakening world commodity prices, reflecting more normal

weather and crop production, which have increased EC outlays for export refunds (i.e., subsidies) and processing subsidies.

- The weakening dollar relative to the ECU that has led to lower world prices expressed in ECU and so higher export refunds.
- Sluggish world markets and a lack of export opportunities, which have resulted in large stocks.
- The high cost of integrating what used to be East Germany into the Common Agricultural Policy (CAP).

Spending on agricultural guarantees will account for over 57 percent of the total EC budget of 57.5 billion ECU in 1991. This will be similar to its share in recent years after accounting for the rise in total EC expenditures from German unification and aid to Eastern Europe. The total EC budget also is likely to set a record and represent about 1.1 percent of the Community's GNP.

Fats and oils will cost the EC taxpayer over 6 billion ECU, 20 percent more than last year's allocation, and nearly 19 percent of expenditures for total market support. Most of the outlays are for crushing subsidies paid to EC oilseed processors.

For grains, the EC has increased the budget allocation by 20 percent to 5.4 billion ECU, primarily for higher export refunds as a result of falling world prices. Spending on the dairy sector is expected to rise 28 percent in 1991 to 5.6 billion ECU to pay for higher storage costs and export refunds.

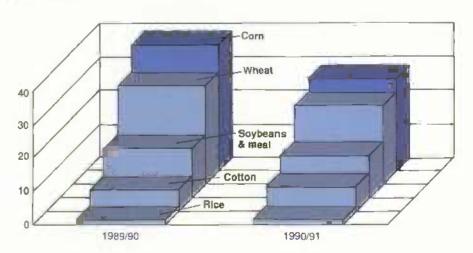
The EC's agricultural budget situation poses a challenge to the CAP and has forced serious debate within the Community over possible reforms. Radical proposals made by the EC Commission in late January are expected to influence the 1991 price package (the EC's farm bill) which probably will be up for debate before the end of this month. [Walter H. Gardiner (202) 219-0610]

example, opening the EC to market forces would mean less wheat and feed grain production there; U.S. output and exports of these commodities would rise. Since the mid-1970's, the EC's policies have sharply boosted their wheat and feed grain production—EC exports took off at the expense of U.S. sales.

On the other hand, U.S. soybean and meal exports would get a much smaller boost. The artificially high grain prices in the EC now encourage meal consumption. These incentives would disappear as EC prices moved down toward world market levels. [Joy Harwood (202) 219-0840 and Frederic Surls (202) 219-0313]

U.S. Commodity Exports Are Down from a Year Earlier

Million metric tons



Livestock, Dairy & Poultry Overview

For the first time since 1988, supplies of beef and pork, in addition to chicken and turkey, are expected to increase. In 1991, output is forecast up 2 percent each for beef and pork and 5 percent each for chicken and turkey. Milk and egg output are each forecast to increase about 1 percent.

Increased supplies, together with lower projected feed costs and recession-curbed demand, will dampen livestock and meat prices—especially in the first half of 1991.

Effects of hostilities in the Middle East are not expected to disrupt animal product markets. Meat and dairy products destined for the armed forces overseas probably will be purchased through normal commercial channels. Unpredictable general economic effects, particularly energy prices, likely will be more critical.

Hog Farmers Are Delaying Expansion

Despite favorable returns since the beginning of 1990, hog producers have been reluctant to expand breeding herds. The number of hogs kept for breeding on September 1 and December 1 remained about the same as a year earlier. Historically, producers have begun adding to the breeding herd after 6-9 months of favorable returns.

As of December 1, 1990, the inventory of U.S. hogs and pigs was estimated at 54.6 million head, 1 percent above a year ago. The market hog inventory was up 2 percent. With December-May farrowing intentions 1 percent lower, commercial pork production in 1991 is projected to total 15.6 billion pounds, up 2 percent from a year ago. The forecast is down

slightly from earlier projections due to the lower-than-anticipated March-May farrowing intentions.

Barrows and gilts at the seven major markets are expected to average \$50-\$56 per cwt in 1991, compared with \$54 in 1990. Continuing increases in poultry output and little, if any, growth in real per capita income will hold down gains in pork and hog prices. However, continued recordhigh retail beef prices will partially offset these pressures.

Retail pork prices in 1991 are expected to average about the same as last year's \$2.13 per pound.

Lighter Weight Cattle Marketings?

Cattle slaughter expanded in January, pressuring down cattle prices and wholesale box beef values. Steer prices declined about \$3 per cwt and boxed beef about \$7 per cwt from the December highs of \$81.67 and \$130.57. Slaughter supplies are probably remaining large this quarter compared with December.

In December 1990, retail Choice beef prices hit a yearly high of \$2.95 per pound, up 3.7 cents from the previous month and 26.7 cents above a year earlier. The farm-retail price spread widened to \$1.20 per pound, about 4 cents above the previous month and 16 cents above December 1989.

Retailers and packers are usually not able to widen market spreads when cattle prices are rising. More often, market price spreads narrow when cattle prices are advancing. Retail Choice beef prices tend to be sticky and likely are declining more slowly than farm prices, meaning that the spreads probably widened further in January and February.

The 13-state Cattle On Feed report showed 10.9 million head on feed on January 1, 10 percent above a year ago and the highest since 1979. Marketing intentions for the winter quarter were given at 5.7 million head, 3 percent above last year. The number of over-700 pound cattle was 8 percent above a year ago.

However, the inventory of 500- to 699pound steers on feed expanded nearly 22 percent from a year earlier. These animals are expected to become ready for market at somewhat lighter weights, tempering the trend toward heavier dressed steer and heifer weights.

The U.S. cattle inventory was estimated at 99.4 million head on January 1, up 1 percent from the revised year-earlier inventory. So, the beef cattle herd continues to expand moderately. The downward revisions in inventory mean that herd liquidation in the 1980's was greater than previously reported.

Future Soviet Broiler Buys Are in Doubt

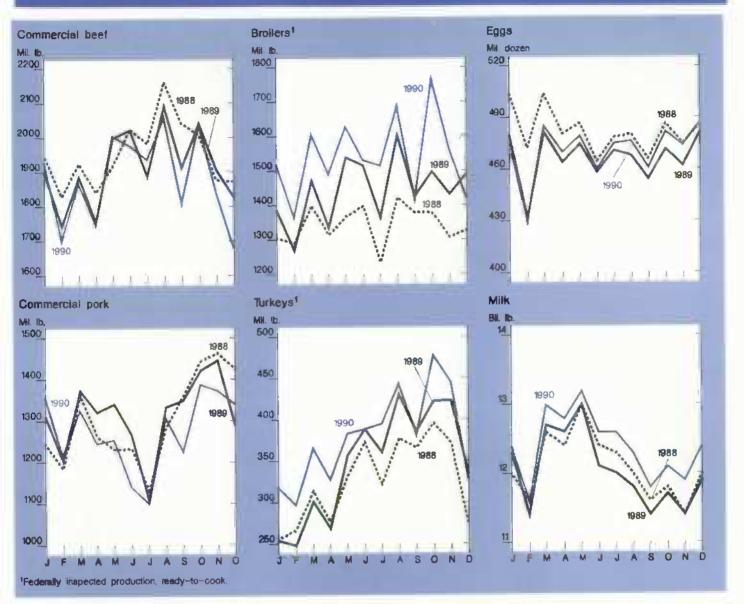
Broiler output is expected to increase about 5 percent in 1991, with first-quarter production growing 5-6 percent, versus 9 percent a year earlier. The slower growth reflects a more cautious approach by producers who face increasing uncertainties about the general economy. Second-quarter production likely will rise 6-7 percent.

Consumption continues to grow, reflecting changing consumer tastes, attractive products, and lower prices. Per capita consumption last year was about 70 pounds, up 3 pounds from a year earlier. Consumption this year is expected to reach 74 pounds.

Wholesale prices showed some strength early in the year. They may have been bolstered by lower placements in November and by strong export demand, especially from the Soviet Union.

In January, USDA extended a \$25-million export credit guarantee for broilers to the Soviet Union. But questions about the USSR's ability to pay and about U.S. willingness to give more guarantees have clouded the outlook for more Soviet purchases.

Lack of adequate financing may reduce sales to the USSR from the 1990 high of about 300 million pounds. The lost sales may pull down total U.S. broiler exports for the year.



Wholesale prices are expected to average almost a cent per pound lower for all of 1991, reflecting increased supplies of broilers and other meats. First-quarter prices likely are averaging in the low 50's, compared with 56 cents a year earlier. Second-quarter prices are expected to strengthen to the mid-50's, near year-earlier levels. Whole-broiler retail prices likely are averaging in the high 80's this quarter, a few cents below a year ago.

Turkey Stocks Ballooned

A 9-percent increase in output last year and a 31-percent increase in stocks caused turkey prices to drop sharply by the end of the year. Turkey stocks stood at 310 million pounds on January 1, 1991.

Wholesale prices for Eastern region hen turkeys are averaging 52-56 cents per pound this quarter, compared with 56 cents a year earlier. However, the low prices are expected to encourage further increases in consumption, particularly in light of relatively high red meat prices. Second-quarter prices are expected to rise to 55-61 cents, but remain slightly below the 1990 average.

Poult placements during August-November last year indicate that first-quarter turkey output probably is rising 4-5 percent from a year earlier. Second-quarter output is expected to grow at the same rate.

Growers have lost money since December and their average net return in 1990 was only marginally above breakeven.

Expectations of tight profit margins likely will restrain producer expansion to about 5 percent this year. A USDA survey of grower intentions also suggests that production will increase 5 percent this year, lifting per capita consumption about 1 pound to slightly over 19 pounds.

Egg Output To Rise, Prices To Slip

Table-egg production in 1991 is expected to increase about half a percent from a year earlier. The table-egg flock

on January 1, at 230 million hens, was about the same as a month and a year earlier. First-quarter output is expected to rise 1-2 percent from a year earlier. Smaller increases are likely in the second and third quarters as producers adjust to expected lower egg prices.

The wholesale New York egg price in 1990 averaged a record 82.2 cents per dozen, surpassing 1989's 81.9 cents, and continued to rebound from 1988's unprofitable 62 cents. Egg prices remained strong throughout 1990, but monthly prices showed gradual year-to-year declines.

Egg prices are likely to continue to be relatively strong through 1991, but below 1990's records. Prices will be pressured by output gains. First-quarter wholesale prices probably are averaging in the mid-80's, compared with about 88 cents last quarter and a year ago. First-quarter retail prices are probably averaging around 98 cents per dozen, well below the \$1.12 of a year ago.

Second-quarter prices are likely to average in the low 70's at wholesale and in the high 80's at retail, reflecting weaker post-Easter demand. Per capita consumption is forecast down 1-2 eggs in 1991 from 234 last year.

Domestically produced eggs going to breakers increased 12 percent in 1990 to over 1 billion dozen. The gain reflected the growing popularity of egg products, purchases by the Department of Defense for the Desert Shield operation, and diversions of eggs from flocks placed under restrictions because of Salmonella enteritidis.

Egg products represented almost 22 percent of 1990 total-egg consumption. More processed eggs will be eaten again in 1991. The share of breaker eggs used in liquid and dried forms was 35 and 34 percent—liquid use surpassed dried for the first time.

Dairy Replacement Herd Is Smaller

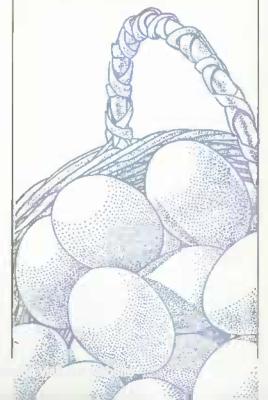
On January 1, dairy farmers held about 4.2 million replacement heifers over 500

pounds, down 1 percent from a year earlier. The decline reflects the aftereffects of the drought-reduced 1988 forage crops. Even so, dairy farmers will have enough heifers this year to expand the dairy herd if they want to.

Compared with a year earlier, the January 1 drop in heifer numbers was less pronounced than the July 1 drop. During the 1988/89 forage year, farmers apparently kept relatively few heifers in order to conserve forage supplies for the milking herd. By the second half of 1991, the final effects of the 1988 drought will have dissipated except in the West. That's because the heifer supply for late 1991 was weaned after 1989 forage was available.

A January 1 inventory of about 41 replacements per 100 milk cows has largely neutral implications for milk cow numbers. This ratio was sufficient to fuel expanding cow numbers in the early 1980's. However, cow numbers declined later in the 1980's with this same ratio.

For further information, contact: Ken Nelson, coordinator; John Ginzel, cattle; Leland Southard, hogs; Lee Christensen, Agnes Perez, and Larry Witucki, poultry; Jim Miller and Sara Short, dairy. All are at (202) 219-1285.



Field Crops Overview

The trade outlook for 1990/91 is marked by fierce competition among principal exporters. U.S. exports of corn, wheat, and soybeans are lagging behind last year's pace. And major markets continue to be disrupted by the Gulf war, shifts in EC and U.S. government export credits and food aid, and problems in the Soviet Union and Eastern Europe.

Global grain trade and prices are forecast below a year ago because production is expected to increase at twice the rate of consumption. Wheat production is up sharply, followed by smaller gains in coarse grains and rice.

If wheat prices remain low and world ending stocks increase by more than 20 percent, major exporters will be induced to cut output in 1991/92.

World Wheat Crop Sets a Record

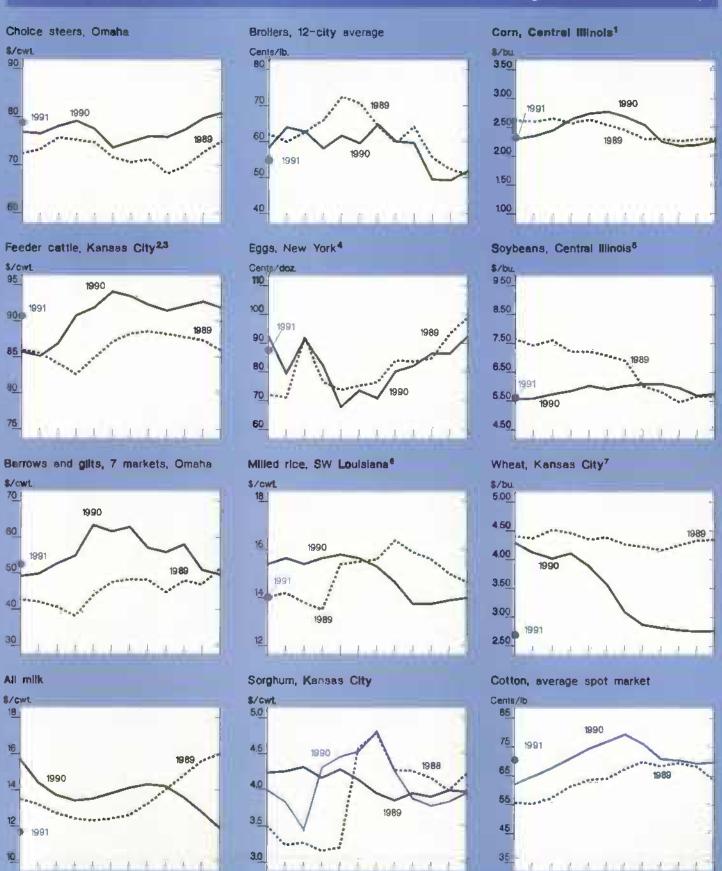
Among the major grains, wheat has the lowest export price relative to a year ago—down about \$46 per ton as world production has swamped demand. Consumption growth is forecast to absorb only 28 million of the 52-million-ton jump in output. Driving the record output of 589 million tons were both expanded area and record world yields. Output gains were distributed about evenly as major exporters and importers each recorded around a 9-percent increase.

Overall demand by major importers has not changed from 1989/90. Importers are asking for and getting large wheat subsidies. The USSR, for example, has received credits, loans, and food aid from a number of major exporters. Yet the EC delayed some Soviet aid because of the government's actions in the Baltic Republics. For example, the EC held up a \$750-million food and medical aid package because of the Baltic actions from January to mid-February.

March 1991

Commodity Market Prices

Agricultural Economy



¹No. 2 yellow ²600-700 lbs. medium no. 2 ³October data not available ⁴Grade A large. ⁵No 1 yellow, ⁶U.S. No. 2, long-grain, ⁷No. 1 HRW To learn how to use OCR and PDF Compression visit our website

From the U.S., the Soviets received \$1 billion in GSM-102 credit guarantees to purchase U.S. farm products, making the USSR the second largest GSM beneficiary after Mexico. Through February 15, the Soviets had used \$838 million. All of the Soviet purchases of U.S. wheat received bonuses under the Export Enhancement Program.

Citing current economic and political turmoil in the Soviet Union, USDA announced on February 15 that it is unlikely that the USSR will receive credits beyond the \$1 billion this fiscal year.

From June 1990 to January 1991, total U.S. wheat sales under the Export Enhancement Program were almost 17 percent ahead of a year earlier, with average bonuses nearly triple 1989/90 levels, at \$36 per ton. Nonetheless, overall U.S. wheat shipments and sales to date are running 18 percent behind a year ago. In contrast. EC wheat exports—aided by restitutions that are more than double the market price—are forecast to match last year's record.

Coarse Grain Crop Nears Use

The outlook for 1991/92 calls for small increases in U.S. and foreign coarse grain output. In 1990/91, world coarse grain output, forecast at 826 million tons, is expected to fall slightly below use. Com and barley account for virtually all of the 22-million-ton rise. Because sorghum use is forecast to exceed output, sorghum prices are up. Com prices remain about the same as a year ago because world wheat prices are low. So livestock producers have been using wheat as a substitute for coarse grains in feed rations.

Global com output is forecast to rise 2 percent to 471 million tons, with most of the gain in the U.S. and China. Drought will remove South Africa from the corn export market and possibly make the country a net importer for the first time since 1984/85.

However, world corn trade is projected to fall 14 million tons, with U.S. exports to drop more than 20 percent. Corn

Decline	in	Globa	l Corn	Stocks	ls	Slowing
POULLIE				المنتبذ المناسات المناسات		

	1988/89	1989/90	1990/91
		Million metric tons	
ORLD			
Wheat			
Production	500	537	589
Use	532	535	563
Exports	97	96	94
Ending stocks	117	119	145
Com			
Production	401	463	471
Use	459	479	473
Exports	64	73	59
Ending stocks	88	72	69
Soybeans			
Production	96	107	105
Use	98	104	105
Exports	24	27	26
Ending stocks	18	20	20
Erioning stooks	, ,		
NITED STATES			
Wheat			
Production	49	55	75
Use	27	27	36
Exports	38	34	28
Ending stocks	19	15	27
Com			
Production	125	191	202
Use	133	146	157
Exports	51	60	47
Ending stocks	49	34	32
Soybeans			
Production	42	52	52
Use	31	34	35
Exports	14	17	15
Ending stocks	5	7	9

Note: Exports of wheat and corn do not include intra-EC trade shipments. Data are for marketing years. The wheat year is July/June, and the soybean and corn years are October/September.

exports from China and wheat for livestock feed from the EC, Canada, and Australia are expected to displace some U.S. shipments.

U.S. corn exports and outstanding shipments are currently 27 percent behind a year ago. Sales are up to Eastern Europe, but are lagging to the USSR, Mexico, South Korea, and Japan.

The pace of U.S. com sales to the USSR picked up in January when the U.S. allocated \$530 million in credit guarantees to the Soviets for feed grain purchases. Mexican import needs are down because of a 2-million-ton rise in domestic output.

South Korean corn imports are expected to fall for the first time in 5 years because feed-quality wheat is reportedly

\$30 per ton less than corn. The pace of Japanese corn imports from all suppliers may pick up as livestock producers shift away from higher priced sorghum.

Global Rice Crop Expanding

Record rice crops in India and China are responsible for 4 million of the expected 6-million-ton (milled basis) gain in 1990/91 foreign output. This will more than offset a minuscule reduction in U.S. output and push global production to 350 million tons. Because global use will grow slower than output, stocks are expected to rise 6 percent. World output is expected to rise again in 1991/92, assuming trend growth in yields and little change in area.

World trade for calendar 1991 is forecast up only slightly to 12.5 million tons. Burma, Pakistan, and Thailand are expected to account for most of the increase. China, on the other hand, will consume or store virtually all of its larger output.

Calendar 1991 U.S. exports are forecast to be 2.4 million tons, unchanged from a year ago. Larger purchases by Brazil are helping offset the loss of the Iraqi market. Iraq had been the top foreign customer for U.S. rice in 5 of the last 6 years, taking 220,000-500,000 tons annually.

U.S. Soybean Crop To Expand

In 1991/92, U.S. production of soybeans and minor oilseeds is likely to rise because of the planting flexibility provided for under the 1990 farm act (see the Commodity Spotlights).

In 1990/91, world soybean production is forecast to fall almost 2 percent short of 1989/90's output of 107 million tons. Output in Brazil and Argentina is projected to drop 3 million tons. Lack of government credits and weaker prices cut the incentives of Argentine and Brazilian farmers. Also, in Argentina, expectations that their currency would remain overvalued deterred producers from expanding output.

Brazilian soybean and meal exports are forecast to decline, although Argentina's are expected to increase. Both countries are likely to reduce meal exports in favor of raw soybeans because of expectations of reduced Soviet meal purchases.

U.S. soybean and meal exports are forecast to fall 7 percent from a year ago.
U.S. meal sales reflect a package of \$130 million in credits to the USSR for meal extended in January. A \$58-million allocation of GSM-102 credits for soybean purchases announced in mid-February is now being tapped by the Soviets.

U.S. soybean oil exports are forecast to fall to 499,000 tons, the lowest since 1975. To date, U.S. soybean oil exports are running 80 percent behind a year ago,

in large part because of the elimination of food aid (PL-480) to Pakistan, traditionally the largest recipient of food aid for vegetable oils.

Pakistan's PL-480 eligibility was revoked because of questions about its nuclear capability. Although GSM-102 credits were made available, they were cut from \$105 million to \$40 million. Without these credits, South American soy oil and Malaysian palm oil could capture larger shares of the export market.

A forecast 8-percent increase in world cotton production in 1990/91 to 86 million bales will barely keep pace with projected use. World output is forecast up 6 million bales; however, the California drought is increasing the uncertainty of 1991 U.S. output. World ending stocks are projected to drop to 22.7 million bales, the lowest since 1983.

Although global cotton trade is forecast down, U.S. exports are expected to be slightly higher than last year. Cotton is the only major U.S. crop whose exports are ahead of 1989/90's pace. Currently high prices are expected to encourage larger U.S. and foreign output in 1991/92. [Tom Bickerton (202) 219-0826]

For further information, contact Sara Schwartz, world food grains; Edward Allen, domestic wheat; Janet Livezey, domestic rice; Pete Riley, world feed grains; Larry Van Meir and Jim Cole, domestic feed grains, Tom Bickerton, world oilseeds; Roger Hoskin, domestic oilseeds; Carolyn Whitton, world cotton; Scott Sanford, domestic cotton, Jim Schaub, domestic peanuts. World information (212) 219-0820; domestic (202) 219-0840.

Specialty Crops Overview

Record-breaking cold weather during the last week of 1990 destroyed over half of California's orange crop. Lemons, avocados, and early strawberries also sustained varying degrees of damage. However, the California drought is not expected to seriously depress the state's output of most fruits and vegetables.

Grower prices for the 1990 potato crop are expected to average below a year ago due to greater production and larger stocks. Dry edible bean prices are down substantially due to a 37-percent increase in production last year.

U.S. sugar production from cane and beets in 1990/91 is forecast up 3 percent from a year ago. And with U.S. sugar imports higher, domestic raw sugar prices are dropping despite an anticipated rise in use of more than 2 percent. World sugar prices have been trending down as well and the price has slipped below 9 cents a pound.

Orange Crop Cut by Freeze

Record-breaking low temperatures throughout the western U.S. during the final week of 1990 destroyed an estimated 57 percent of California's orange crop. In addition, lemons, avocados, and early strawberries sustained varying degrees of damage. However, Arizona's citrus and California's winter vegetables escaped relatively unscathed.

Forecasts of California's navel and valencia orange production dropped 60 percent and 52 percent following the freeze. Losses were greatest in the San Joaquin Valley, where most of the navel and about half of the valencia oranges are grown. Navel oranges are the principal fresh market variety harvested in California during the fall and winter, while

valencias account for most of the fresh market crop between April and September.

Total fresh orange supplies will be lower and retail prices higher for the remainder of the season. California normally produces about 75 percent of the fresh oranges consumed in the U.S. Some of the lost output will be replaced by Florida oranges diverted from processing, and some by greater imports.

Although California is a minor supplier of orange juice, futures prices for frozen concentrate rose to \$1.20 per pound of solids during January from a low of \$1.03 in mid-December. The increase was due to smaller-than-expected production in Florida and uncertainty about the size of the Brazilian crop.

Forecasts of California's lemon production fell 18 percent following the freeze. Almost all U.S. lemons are produced in southern California and Arizona where losses due to cold weather were less severe than in the San Joaquin Valley. However, lemon exports will be down from a year ago because quality was harmed.

California's avocado crop is estimated to have been reduced 10-20 percent by the freeze, although industry analysts sull expect the current crop to be larger than a year ago. While the early strawberry harvest was lost, the plants survived and production returned as new fruit developed.

Damage was minimal and price hikes were short lived for iceberg lettuce, broccoli, cauliflower, and celery produced in the Imperial Valley, other southern California areas, and Arizona. However, central California growers lost some broccoli, cauliflower, carrots, and winter potatoes which may cause some minor supply gaps this spring.

Lettuce prices before the freeze were \$3-\$4 per 24-head carton, f.o.b. shipping points, which is considered the minimum price to cover harvesting and marketing costs. Although prices rose immediately following the freeze, they quickly returned to the \$3-\$4 range. Nonetheless, lettuce prices are expected higher

during the entire winter season because of a 7-percent decline in acreage.

Supplies of warm-season vegetables (tomatoes, peppers, cucumbers, squash, eggplant, and snap beans) were unaffected. U.S. consumers receive nearly all warm-season vegetables from Florida and Mexico, and both escaped the cold.

Winter Vegetable Acreage Declined

In 1991, harvested acreage for seven selected fresh winter vegetables is estimated to have dropped 4 percent from a year earlier. The decline in broccoli (16 percent), cauliflower (14 percent), and carrots (7 percent) partly resulted from field abandonment in central California. Celery acreage fell 1 percent and lettuce area was down because of low prices during the past season.

In contrast, Florida winter tomato acreage recovered from last year's freezereduced level to near what was grown in 1989. Sweet corn acreage rose 9 percent.

Low water stocks and below-normal winter precipitation virtually ensure that the California drought will continue this year. Lakes and reservoirs were about half their seasonal levels in late January. Normally, reservoirs gain water during January, but this year levels dropped.

State water officials completely cut out agricultural deliveries from state water projects. However, most fruit and vegetable crops likely will get the water they need from other sources (see the Resources Department).

Fresh Potato Supplies Up

Greater production than a year earlier has meant lower prices for the 1990 crop.
U.S. potato production rose 6 percent last year to 393.9 million cwt. Production gains were biggest in Idaho, where output rose 10 million cwt from a year earlier. Although 40,000 more acres were planted there, yields fell nearly 4 cwt per acre, leaving a relatively modest increase in output. In Washington, output rose

almost 4 million cwt, but yields were down 30 cwt per acre.

Fresh stocks of fall potatoes on January 1, 1991, were up 7 percent from a year earlier. Stocks in Idaho were up 14 percent while those in Washington were down 3 percent. North Dakota stocks rose 16 percent, but remained below their long-term trend. Processors' stocks of frozen french fries on January 1 were up 4 percent from a year earlier, while stocks of all frozen potatoes were up 6 percent.

The first estimate of the season average potato price is \$6.15 per cwt, down 16 percent from the year-earlier record. Monthly average grower prices were \$5.54 and \$5.72 in December and January, compared with \$7.02 and \$7.15 a year earlier. Average grower prices typically fall 3-4 percent for each 1-percent increase in production.

Grower receipts for 1990 potatoes will fall short of 1989 receipts, which were the highest since 1984. The value of 1990 production is estimated to be \$2.4 billion, down 11 percent from 1989. The expected drop in grower prices more than offsets the increase in output.

Dry Bean Crop Larger, Prices Drop

Dry edible bean prices dropped substantially when 1990 production jumped 37 percent from a year earlier to 32.4 million cwt. The average U.S. grower price in December was \$18.80 per cwt, down from \$27.80 a year earlier.

Navy bean production rose the most, up 48 percent, due to record yields in Michigan and increased acreage and higher yields in Minnesota and North Dakota. Substantial increases also were recorded for great northern beans (33 percent), pinto beans (43 percent), and kidney beans (37 percent). Production of all types was up 68 percent from 2 years ago.

F.o.b. dealer prices for navy beans in Michigan in early January were \$19-\$20 per cwt, down from \$28.50-\$29.00 a year earlier. Pinto beans also were

selling at \$19-\$20 per cwt, compared with \$38.50-\$39 a year earlier.

Prices likely will remain low until first indications about farmers' planting intentions for 1991 are announced later this month. U.S. exports of navy and pinto beans were strong last season, and the lower prices probably will give them an additional boost in 1991.

Sugar Crop Expected Larger

U.S. sugar production in 1990/91 (September-August) is forecast up nearly 3 percent from a year earlier to 6.8 million short tons, raw value.

Florida's cane sugar crop is estimated to be a record 1.7 million tons, up 19 percent from a freeze-stunted 1989/90, reflecting increased acreage and higher yields. Production is expected to drop in Hawaii, continuing a long-term trend. Louisiana output is likely down as well due to freeze damage in December 1989.

Beet sugar production is forecast to be 3.8 million short tons, 11 percent above the previous crop. Sugarbeet acreage is 6 percent higher, and yields are higher in the field and the factory. The beet refinery industry has been installing new processing technology that reduces the amount of sugar lost in molasses.

U.S. sugar use is forecast to increase more than 2 percent in 1990/91, to 8.7 million tons, raw value. The growth comes from greater use in confectionery, bakery, and cereal industries.

An estimated 2.3 million short tons of sugar, more than a quarter of U.S. consumption, will be imported in 1990/91. The 1990 farm act requires that, beginning October 1, 1991, at least 1.25 million short tons of raw sugar must be imported by the U.S. each fiscal year.

The improved crop outlook and increased imports have put downward pressure on domestic raw sugar prices. U.S. prices (Contract No. 14 nearby futures, c.i.f/duty paid, New York) averaged 22.97 cents a pound from October through December 1990. Prices in Janu-

ary 1991 averaged 21.86 cents, and by early February had fallen to about 21.4 cents. [Glenn Zepp (202) 219-0883]

For further information, contact Kate Buckley, fruit; Gary Lucier, vegetables; Peter Buzzanell, sweeteners; Verner Grise, tobacco; Doyle Johnson, tree nuts and greenhouse/nursery; David Harvey, aquaculture; Lewrene Glaser, industrial crops. All are at (202) 219-0883.

Upcoming Releases from USDA's Agricultural Statistics Board

The following reports will be issued at 3 p.m. Eastern time.

March

- 1 Egg Products Poultry Slaughter
- 6 Dairy Products
- 7 Celery Vegetables
- 11 Crop Production
- 13 Potato Stocks
- 14 Turkey Hatchery
- 15 Milk Production
- 18 Cattle on Feed
- 19 Livestock Slaughter— Annual
- 20 Calfish Agricultural Chemical Usage
- 21 Vegetables
- 22 Cold Storage
 Livestock Slaughter
 Eggs, Chickens, & Turkeys
- 26 Hatchery—Annual Hop Stocks
- 27 Peanut Stocks & Processing
- 28 Grain Stocks
 Hogs and Pigs
 Prospective Plantings
 Rice Stocks
- 29 Agricultural Prices Woot & Mohair

Commodity Spotlight



Wheat Area To Drop 11 Percent

I.S. farmers said they plan to plant 13 percent fewer acres with spring wheat than in 1990, according to a special survey of early intentions. And last fall, farmers seeded 10 percent less winter wheat than a year earlier. Reduced planted area points to a smaller crop in 1991.

However, wheat output probably will decline more than area would suggest because farmers are not expected to harvest as much of planted area as last year and yields probably will not match 1990's record.

U.S. farmers will respond to a higher Acreage Reduction Program (ARP) requirement, 1990's record world output, and low wheat prices by reducing production in 1991. However, beginning stocks are forecast up 446 million bushels to nearly 1 billion, leaving the U.S. with large supplies despite the lower expected production.

If the rest of the world also adjusts to low prices by lowering output, U.S. exports are likely to expand in 1991/92 (June/May). However, if foreign output

persists at near-record levels, U.S. exports would not post a major increase. And wheat supplies probably would remain large despite the drop in U.S. production.

Spring Wheat Area Prospects Are Down

A USDA plantings report published February 11 showed that farmers planned to plant 1 percent more acres with durum and 16 percent fewer acres with other spring wheat. Spring wheat producers are reducing wheat acreage faster than winter wheat producers in part because of the transition to the new programs under the 1990 farm act. However, a large portion of the decline in both winter and spring acreage is simply in response to the higher ARP requirement.

Winter wheat producers who planted before the new farm bill was passed have the option this season only of receiving deficiency payments on 85 percent of their wheat base if they accept deficiency payments using a 12-month average price instead of a 5-month average price. This would cut deficiency payments only an estimated 7 cents per bushel to \$1.40 per bushel.

Spring wheat producers, on the other hand, can only receive deficiency payments on a maximum of 70 percent of their base. The ARP accounts for 15 percent while the remaining 15 percent of their base is called "Normal Flexible Acres." The flexible acres can be planted with any program crop or oilseed without losing base history, but are incligible for deficiency payments.

Wheat prices continued to decline into January, leaving spring wheat producers with even less of a reason to plant than winter wheat farmers had last fall. The low prices encourage spring wheat farmers to plant some other crop on their flex acres.

In the Northern Plains, a significant portion of wheat producers has grown sunflowers in previous years, and is likely to find them an attractive alternative in 1991. Sunflowerseed prices will be sup-

ported by a new marketing loan program (see the following Commodity Spotlight).

If wheat prices stay low through the spring while oilseed prices strengthen, some spring wheat producers may put their entire wheat base into the 0/92 program and grow minor oilseeds on all their permitted acres. This option allows them to receive 92 percent of the deficiency payments they would have received if they had planted wheat, while planting minor oilseeds on their permitted acres. But then the oilseed output would not be eligible for the marketing loan program.

After several years of drought in the Northern Plains, the value of fallow land in a crop rotation has become clearer to many farmers. The increased ARP will allow more fallow area. And some farmers may fallow flex acres, conserving scarce soil moisture for a time when wheat prices are more attractive.

The new conservation programs also may attract some spring wheat base (see the December Agricultural Outlook for more on the 1990 farm act).

Durum Intentions To Affect Plantings?

The late January intentions survey showed that farmers plan to plant more acres with durum. The mid-January average farm price in North Dakota pegged durum 35 cents per bushel above other spring wheat. This premium of more than 15 percent is ample incentive for switching from other spring wheat to durum.

But the premium is volatile. As recently as August 1990 there was no durum premium in North Dakota, and throughout most of 1989/90 durum actually sold at a discount to other spring wheat. Over the last decade durum has commanded a price premium only 55-60 percent of the time.

The durum market is comparatively small and dominated by North Dakota production. Beginning stocks for 1991/92 are forecast to be 76 million bushels, up over 50 percent from the year

before. Any output increase in 1991 could contribute to sharply higher stocks and lower prices. Hearing that their neighbors plan to increase durum area, many farmers who thought they would plant durum may change their minds.

Harvested Area Is Loosely Linked to Planted

In 1990, winter wheat producers harvested 88 percent of their planted area, up from 75 percent the year before and the highest in recent years. In 1991, the percent of planted area that is harvested probably will drop.

In the Southern Plains, winter wheat plantings decreased only modestly. But many of the region's farmers traditionally plant all of their wheat base, and then choose the portion that they feel has the lowest yield prospects to be cut down or grazed out to meet the ARP requirements.

Since the ARP requirement has increased from 5 percent to 15 percent, more of the planted area will have to be put into conserving uses instead of harvested for grain. Also, farmers do not have the option of modifying their contracts to harvest up to 105 percent of their base as they did in 1990. Strong cattle prices and low wheat prices also will encourage more wheat grazing.

Some winter wheat producers, especially if they have had winter damage on more than 15 percent of their wheat base, will be attracted to the normal flexible acres program. They will receive higher deficiency payments on 70 percent of their base while foregoing deficiency payments on their normal flexible acres. But they are allowed to plant a spring crop, such as sorghum, on the normal flexible acres. Early intentions show a whopping 19-percent increase in sorghum area.

On the other hand, if winterkill is light, most winter wheat farmers will find it profitable to harvest a maximum of 85 percent of their base and receive deficiency payments determined with a slightly lower payment rate. In other words, they will not take the normal flexible acres option.

In soft red winter regions, producers normally harvest a higher percent of planted area than elsewhere. However, their planted area dropped almost 20 percent last fall. Program participation is lower in soft red winter states.

Yield Prospects Are Tempered

In 1990, wheat producers posted record average yields. And while another record is always a possibility in 1991, back-to-back record yields are rare. So the size of any potential yield increase is limited by last year's outcome. Through early February, there have been reports of some winterkill in the Pacific Northwest and some soft red winter areas, but growing conditions have been favorable in the Southern Plains.

Normally, an increase in the ARP sets the stage for increased yields because each farmer takes his lowest yielding land out of production. However, in 1991 this is likely to be offset by the regional shifts in planted area.

Yields in soft red winter areas average almost 10 bushels per acre higher than in hard red winter areas. With area planted to soft red winter down almost 20 percent, and hard red winter plantings down only 8 percent, a larger portion of the winter wheat crop will be in lower yielding varieties. [Ed Allen (202) 219-0840]

Upcoming Economic Reports

Summaries of the following reports from USDA's Economic Research Service will be issued at 3 pm Eastern time on the dates shown.

March

- 13 Sugar and Sweeteners
- 14 Fruit and Tree Nuts
- 19 Agricultural Outlook
- 27 Aquaculture

Farmers Say Oilseed Acres To Rise

In the first survey of the season, U.S. farmers said they plan to plant 1 percent more acres with soybeans and 36 percent more acres with sunflowers than a year earlier. Farmers also said they would plant 18 percent more acres with cotton in 1991. That will, in turn, boost cottonseed production.

Farmers also were asked about their planting intentions for other minor oil-seeds such as canola, flaxseed, mustard seed, rapeseed, and safflower seed. One percent of those queried said they plan to plant these crops, and another 1 percent said they were undecided.

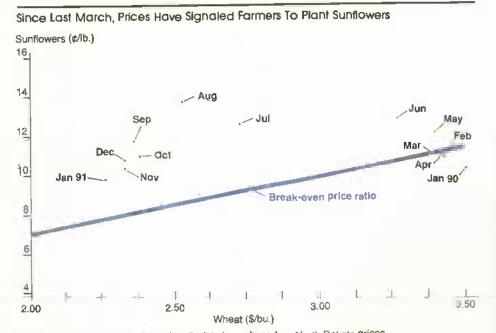
The January planting intentions survey was unusual because it was taken so early in the season. And because farmers were asked about their plans when many were still making up their minds, the acreage estimates could change significantly. USDA conducted the survey to get an early reading on how farmers would react to the 1990 farm act.

Nearly 19,000 farmers across the nation responded to the survey. Results from a larger and more detailed planting intentions survey will be released on March 28, followed by a report on actual plantings on June 27. The questions about sunflower intentions were asked of farmers in Kansas, Minnesota, North Dakota, South Dakota, and Texas. In 1987, these states accounted for 96 percent of U.S. sunflower acreage.

Increased interest in oilseeds in 1991 is due mainly to the new oilseeds provisions of the 1990 farm act (see box). The new provisions increase farmers' flexibility to respond to changes in market prices and provide protection against price volatility. A bearish price outlook for soybeans, however, likely will limit any expansion, while larger relative shifts are expected for other oilseeds.

Sluggish Exports Cut Soybean Gains

Despite strong domestic demand for soybean products, a larger-than-expected crop in 1990 and a sluggish export market have weakened the outlook for prices. With larger ending stocks projected, it is unlikely that soybeans will be in short supply when the new crop becomes available this fall. So, rela-



Monthly sunflower/wheat price ratios, flexible base, based on North Dakota prices January 1990- January 1991.

tively low prices would limit any income gains from taking advantage of the new flexibility to plant more soybeans.

Soybeans compete for available acreage most often with com. With corn for December delivery hovering around \$2.50-\$2.60 per bushel, November soybean futures would need to exceed \$7.00 for farmers to shift large amounts of land into soybeans. Although soybean futures prices rose in mid-February on speculation about poor yields in South America, prices for November delivery remained below \$6.50.

The indicated 1-percent gain in acreage may reflect rotational considerations or be in areas where soybeans can be substituted for other, less profitable program crops such as wheat. Estimates among industry analysts call for an increase of tess than 1 million acres, while the initial planting intentions report suggested an increase of 705,000 acres.

It is still early in the season and a number of uncertainties remain. So far, exports of soybeans and products are lagging well behind a year earlier, depressing prices and expectations. Yet prospects for expanding U.S. acreage could jump if Soviet or European purchases were to take off.

This spring's soybean price outlook also will be shaped by South American production. Brazil and Argentina are forecast to harvest smaller crops this spring than a year ago. While the reduced South American acreage has already been incorporated into farmers' soybean price outlook, poor weather conditions or economic disruptions would lift price expectations.

Farmers also are awaiting the outcome of the GATT negotiations and watching for U.S. actions under the section 301 case that was decided against the EC's oilseed policies.

California Drought To Limit Cotton Area?

The outlook for other oilseed acreage is more bullish. Depressed prices for com-

The 1990 Farm Act & Oilseeds: Some Background

Planting Flexibility: The maximum payment acreage was cut by 15 percent. However, farmers are free to grow other crops on this acreage (called Normal Flexible Acres), excluding fruits and vegetables, without loss of crop acreage base. Farmers seeking more flexibility may use an additional 10 percent of their base, although deficiency payments must be foregone on these acres.

Oilseeds Marketing Loan: Mandatory nonrecourse marketing loans were established for soybeans and selected minor oilseeds. Marketing loans act to insulate producers from downside price risks while discouraging forfeitures to the CCC. Farmers are allowed to repay the loans at less than the loan rate when world prices are low.

The loan rate for soybeans is set at \$5.02 per bushel and 8.9 cents per pound for minor oilseeds (sunflower seed, canola, rapeseed, safflower, mustard seed, and flaxseed). All loans are subject to a 2-percent origination fee, meaning that the effective loan rates are \$4.92 for soybeans and 8.72 cents for the other eligible oil crops.

0-92: The 0-92 program was modified to allow farmers seeking additional flexibility the option to plant minor oilseeds on eligible program acreage while still receiving up to 92 percent of their deficiency payments. However, farmers electing to do this are not eligible for the marketing loan. The 0-92 option does not apply to soybeans.

peting crops and increased flexibility are expected to lead to more acres this spring.

Although cotton is grown in the U.S. primarily for lint, the byproduct, cotton-seed, is the nation's second largest oilseed crop. Driven by high prices and a lower Acreage Reduction Program (ARP) requirement, cotton area likely will increase significantly this year. The

cotton ARP for the 1991 crop was set at 5 percent, down from 12.5 percent last year. Cotton also is expected to expand in some areas where soybeans and wheat are traditionally grown.

With average cottonseed yields of roughly half a ton per acre, farmers' intentions to plant 2.3 million more acres of cotton would boost supplies significantly. However, persistent drought in California, the second largest cotton producing state, could hamper farmers from realizing their early-season intentions (see the Resources Department).

The acres allocated to other oilseeds are expected to increase as well. Many of these crops are suited to growing conditions in the Plains where they compete with wheat and barley. In the past, high support prices and rigid program regulations discouraged oilseed production.

However, a record world wheat crop in 1990 and a lagging export market have depressed wheat prices. Coupled with the price protection of the new marketing loan, minor oilseeds likely are au attractive alternative for the estimated 3-3.5 million acres of spring wheat Normal Flexible Acreage (NFA) that are no longer eligible for deficiency payments.

Modification of the 0-92 provisions also allows farmers to plant certain minor oil-seeds on their crop acreage base while maintaining their deficiency payments. Like the NFA provisions, these provisions increase the attractiveness of planting oilseeds.

Of the minor oilseeds, oil-type sunflowers are a leading contender for the most significant acreage gain. Many farmers on the Plains are familiar with sunflowers and have access to established sunflower markets.

Prices have firmed in recent weeks in response to strong domestic demand for vegetable oil and export activity stimulated by the Sunflower Oil Assistance Program. Growing demand as a preferred ingredient in birdfeed and a forecast decline in South American production also brighten prospects for sunflowers in 1991.

Shifts to lesser known oilseeds such as flaxseed, canola, rapeseed, safflower, and mustard probably will be limited and concentrated in regions where production is proven.

The full impact of the new farm program's flexibility provisions will not be felt until 1992. The 1991 winter wheat crop was planted before the farm bill passed, meaning some farmers were held back from switching to canola and rapeseed.

Farmers thinking about planting oilseeds this spring are waiting for the operational details of the marketing loan program. And, for the first year, they may want to watch how the program operates before making a major switch in crops. [Ian McCormick and Jim Schaub (202) 219-0840] [AO]

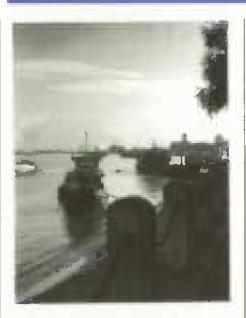
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World Agriculture and Trade



Record Grain Crops In China

hina produced back-to-back record grain crops during the past 2 years after launching an all-out effort to revive output. The bumper crops—nearly 408 million tons in 1989 and over 425 million in 1990, including soybeans and potatoes—have allowed China to begin cutting net grain imports by buying less wheat and selling more com. However, China's government expects grain output to level off this year.

China's corn exports are aggressively replacing U.S. sales to East and Southeast Asia. And the U.S. share of China's wheat imports during 1990 and 1991 is probably down to 35 percent from nearly 50 percent during the previous 2 years. In 1988/89, China was the biggest importer of U.S. wheat.

Before rebounding in 1989, China's grain output fluctuated between 379 and 403 million metric tons. Earlier it had peaked at around 407 million in 1984. Stagnation in the grain sector, along with a rising population, reduced China's per capita grain output from 395 kg in 1984, or just slightly below the world average, to only 360 kg in 1988.

Faced with mounting net grain imports, China's government was determined to boost output. In 1989, the central government began to increase state agricultural investment and encouraged local governments to set aside funds to build agricultural capital. To encourage farmers to grow grains and to offset high inflation, the government raised quota procurement prices nearly 20 percent.

The government also recentralized input distribution to ensure that fertilizer allocated to grain production actually reached farm households. Moreover, China's leaders again began using administrative fiats, primarily through the party, to force farmers to grow more grain.

All of these measures, coinciding with excellent weather, resulted in the record grain crops of the past 2 years. But while production hit alltime highs, output per person averaged 365 kg in 1989 and 375 kg in 1990—still below the 1984 high.

Storage and Procurement Posed Problems

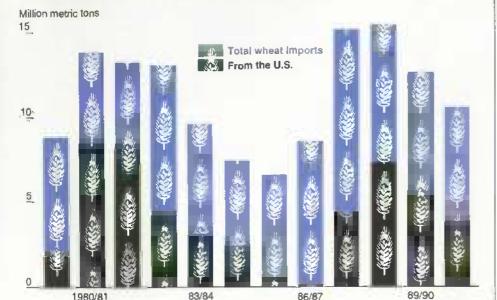
The government lagged behind in granary construction. In December, the Ministry of Agriculture reported that 25-30 million tons of the 1990 grain crop were stored out in the open, although almost 8 million tons of new storage capacity had been built by the state grain authorities that year.

Despite these problems, the government nevertheless wanted to maintain incentives for farmers to grow grain. In 1990, the government set guaranteed prices at 0.96 yuan per kg for wheat and 1.00 yuan per kg for rice (5.2 yuan = \$1).

The government will continue to use these prices to buy as much grain as farmers are willing to sell after completing their basic procurement quota. However, many localities reported in 1990 that farmers found it difficult to sell grain to the government because many procurement stations had exhausted their appropriated funds.

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Recent Record Crops Push Down China's Wheat Imports



July-June marketing years

1990/91 forecast

China's Grain Output Rebounds Year Total Rice (rough) Wheat Com Million metric tons 1981 325.0 144.0 59.2 1982 354.5 161.6 68.5 60.6 81,4 68.2 1983 168.9 387,3 1984 407.3 178.3 87.8 73.4 1985 379.1 168.6 85.6 63.8 1986 391.5 172 2 90.0 70.9 1987 403.0 174 3 85 9 79.2 1988 394.1 169.1 85 4 77.4 1989 407 6 180 1 90.8 78.9 1990 425.0 185.0 88.0 Sources: for 1981-89—China Statistical Yearbook 1990, for 1990 total grain—China's Ministry of Agriculture; for 1990 rice, wheat, and corn-USDA, February 1991 estimates.

The guaranteed procurement prices will remain valid through 1991. However, China's Ministry of Agriculture has recently revealed that the 1991 grain output target is 425 million tons, similar to 1990's output. Although area planted to winter wheat was reportedly up about 260,000 hectares, officials expect that total grain area will be about the same as a year ago.

Some of the planned acreage will not be sown because of lower inflation-adjusted market prices and the difficulties farmers had in selling grain to the government last year. Furthermore, government offi-

cials there do not expect 3 years of backto-back good weather.

In the mid-1980's, China's authorities set grain production targets of 450 million tons by 1990 and 500 million by 2000. While the 1990 target was not met, China's 10-year planning program (1991-2000) and the Eighth 5-Year Plan (1991-1995) retained the 500-million target.

The target will have to be fulfilled primarily through yield increases. There is only limited potential to expand cultivated area. Achieving the target appears to depend entirely on the government's ability to allocate resources to improve

the entire production process. And even if the target is met, per capita grain output likely will be less than in 1984 because of population growth.

Self-Sufficiency Hinders Growth

In the past 10 years, rural reforms and policy changes have contributed to substantial growth in the rural economy. Regional crop specialization, development of the livestock sector, and a more open trade policy have led China to expand its international grain trade. Even though domestic wheat output grew 62 percent in the last 10 years, China has remained a leading world wheat importer.

Yet China has not changed its traditional policy goal of food self-sufficiency. Over the past four decades, this policy has driven all provinces and regions to develop their own food supplies.

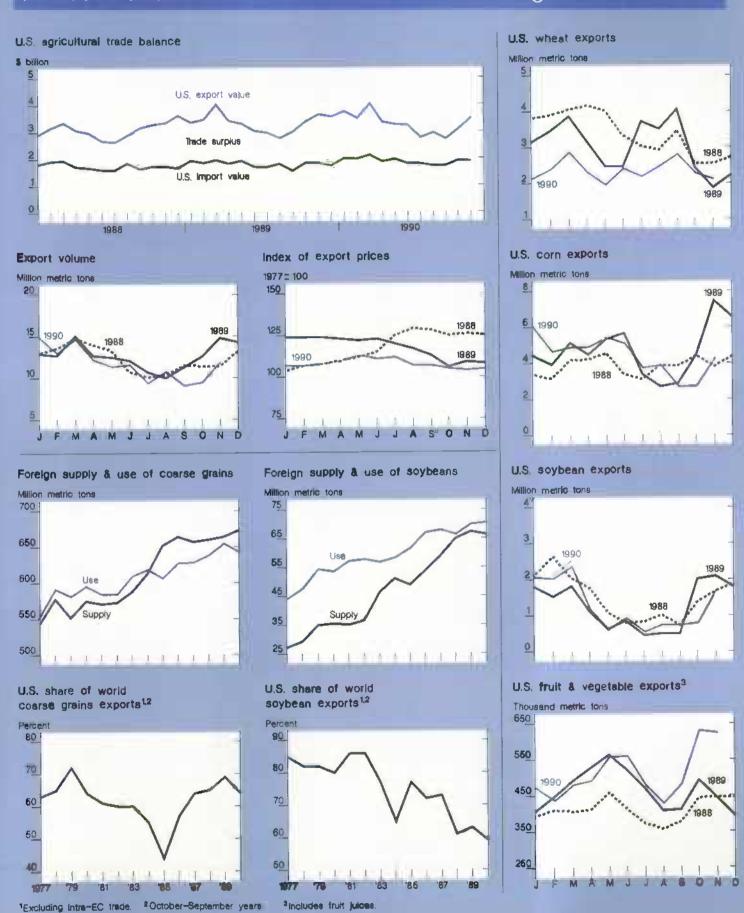
As China achieves a greater degree of food self-sufficiency, less grain will be transferred between provinces or regimes, slowing the growth of China's infrastructure, particularly its food marketing and storage reserve systems. Increasing centralized controls and using administrative fiats probably over-emphasized grain production and have been costly.

For example, China's 1990 and 1991 guaranteed wheat procurement price of 0.96 yuan per kg equals \$185 per ton. Currently, world wheat prices are only about one-half the guaranteed price, ranging from a low of \$70 (for countries receiving large export subsidies) to around \$110. Thus, by importing only a few more million tons of wheat from foreign sources, the government could save hundreds of millions of dollars.

Moreover, China can afford to import more. China's foreign exchange reserves have risen dramatically. In 1990, the nation's merchandise trade surplus amounted to nearly \$9 billion. However, the government has tried to limit annual net grain imports to around 10 million tons, citing a shortage of foreign exchange, as well as the need to use the

U.S. Trade Indicators

World Agriculture and Trade



World Agriculture and Trade

foreign exchange to buy imported technology and equipment for industrial development. [Francis C. Tuan (202) 219-0626] AO

FTA Affects U.S.-Canadian Ag Trade

he U.S.- Canada Free Trade
Agreement (FTA) has been in
effect a little over 2 years and has
advocates and detractors in both countries. Although bilateral trade continues
to expand, several disputes have arisen
since the agreement's inception. The
results of the FTA may spark even more
interest in the U.S. with the possibility of
a trilateral agreement between the U.S.,
Canada, and Mexico.

So far, the FTA's impact on agriculture has been relatively limited compared with other sectors. That's because both countries wish to retain their domestic price support programs, at least for now. Nevertheless, there has been some liberalization of tariffs, export subsidies, certain nontariff barriers, and technical regulations.

Additionally, both countries have pledged to develop rules and disciplines on subsidies and dumping, which have been contentious agricultural issues. However, no progress has been made yet. The FTA also provides for bilateral panels to settle disputes under existing countervailing duties or anti-dumping laws.

Source: Statistics Canada

U.S. Processors Benefit from FTA

The complete removal of tariffs by 1998 for all products eventually will force Canadian food processors to become more competitive with their U.S. counterparts. In many cases, U.S. processors have lower production costs due to larger operations, diversity of production, and lower input costs. U.S. food processors should benefit from greater exports to Canada in the short run.

Canadian processors typically have lower productivity than U.S. processors, but some equalization can be anticipated in the long run. Canada already has attempted to lower input costs for grain processors. And the decision to remove oats from the Canadian Wheat Board's jurisdiction and let the market determine prices was taken in part to encourage processing of oat products.

Canada also has assisted its millers by discontinuing its two-price wheat policy, where domestic wheat was often priced higher than exported wheat. Starting in January 1991, the domestic wheat price was established off the Minneapolis market for red spring wheat and the Chicago market for soft white spring wheat. This should narrow the long-standing price spread between Canadian and U.S. wheat for domestic millers.

Ag Trade Has Grown Faster

In January 1990, the U.S. changed the method of reporting its exports to Canada. Canadian import data were substi-

tuted for U.S. export data that historically underreported shipments to Canada. The adjustment led to an almost 40-percent increase in reported U.S. agricultural exports to Canada for 1990. When using Canadian import data, U.S. agricultural exports to Canada actually rose 17 percent in 1990 from a year earlier. Data prior to 1990 have been adjusted in this article to reflect the change.

In 1989, according to the adjusted data, agricultural trade between Canada and the U.S. grew faster than overall agricultural trade. However, the precise effect of the FTA is difficult to isolate.

The North American drought strongly affected trade in 1989. Because of the drought, Canadian agricultural exports declined while U.S. exports grew more slowly. For some commodities, bilateral trade rose to cover the other country's production shortfalls.

In 1990, U.S. agricultural exports dipped slightly. Yet, U.S. agricultural exports to Canada grew even faster than a year earlier and at a faster pace than Canadian agricultural exports to the U.S. In contrast, Canadian agricultural exports to the U.S. rose by a smaller amount than a year ago and at a slower rate than total Canadian agricultural exports.

The FTA requires import licenses for Canadian wheat, barley, and oats to be removed when U.S. support is less than or equal to Canadian support, based on a 2-year average of government support. As a result, import licenses on oats and oat products already have been removed. But there have not been any significant impacts on U.S. trade. The U.S. has been a not importer of oats since the early 1980's.

More significant would be Canada's removal of import licenses on wheat and wheat products. U.S. millers and bakers, who possess a competitive advantage, have been largely excluded from this market due to the licensing requirement. The 1991 calculation of government support, to be released on May 1, 1991, will be based on the average of 1988/89 and 1989/90 support levels. In 1988/89, U.S. support was far less than Canada's.

Agricultural exports	1987	1988	1989	1990
		\$ bi	Hion	
I.S.:				
Total	30.9	37.1	40.0	39.5
To Canada	2.9	3.2	3.6	4.2
anadian:				
Total	7.2	8.3	7.4	8.1
To the U.S.	2.2	2.4	2.9	3.2

World Agriculture and Trade

A year ago, Canada and the U.S. agreed to a 1-year experiment of an open border for trade in meat and poultry. An open border would eliminate port-of-entry inspections in both countries. Nevertheless, implementation of the open border has been delayed following Congressional and other opposition.

USDA's Food Safety and Inspection Service held a comment period, and a decision whether to implement the open border will not be made until all the comments have been reviewed. In the meantime, random reinspections of Canadian meat will continue at the border.

Dispute Panels Proceed Slowly

Two FTA dispute settlement panels recently have ruled on U.S. countervailing duties placed on imports of Canadian pork. The first panel questioned the U.S. International Trade Commission's (USITC) decision that Canadian federal and provincial subsidy programs for hogs resulted in greater exports, causing significant injury to U.S. pork producers. The USITC's ruling used an incorrect conversion factor that inflated the volume of Canadian pork production.

The USITC reviewed its finding using the correct conversion factor and upheld its decision in October 1990. Canada subsequently filed for another investigation and on January 22, 1991, the dispute settlement panel determined that the USITC's injury ruling was based on theory rather than conclusive evidence. The USITC reviewed its finding a second time and issued a decision on February 12.

The USITC ruled that U.S. hog producers are not threatened with injury from imports of fresh, chilled, or frozen pork from Canada. In the absence of any appeals, this will lead to the eventual elimination of the countervailing duty and will require the U.S. to refund the deposits collected since the duty was imposed in May 1989.

The exact timetable will depend on the appeals process selected. U.S. producers may request either a review of the ruling

or mount an extraordinary challenge to the panel's finding.

If neither is filed, a notice of closure to the panel is filed and there would be a 30-day period to mount a constitutional challenge to the law before either the Court of International Trade or the U.S. Court of Appeals. At this time, the National Pork Producers' Council has not indicated that it will appeal, but would prefer for Congress to hold hearings to determine the powers of the settlement panel.

The second dispute panel agreed with the U.S. Department of Commerce that subsidy programs for hogs pass through to pork producers. However, the panel required the Commerce Department to determine whether all of the subsidies from each of the federal and provincial programs affecting pork pass through to pork producers. The Commerce Department responded to this last November by upholding the countervailing duty, but reduced the levy to 6.6 cents (Canadian) per kilogram from 8 cents.

Both cases have been under various forms of panel review since autumn 1989. Because one of the rationales for the dispute panel was to improve upon the GATT dispute process, the expediency of the binational panel versus a GATT panel has been questioned.

Export Subsidies Are Being Disputed

Export subsidies and alleged dumping of Canadian grain have been troublesome issues. The FTA removed the rail subsidy granted by the Western Grain Transportation Act (WGTA) on grain and oilseed shipments to the west coast that are exported to the U.S. But continuing the transportation subsidy to Thunder Bay, Ontario, created tension over Canadian durum wheat exports.

Canadian durum exports to the U.S. rose substantially from 1985 to 1989. North Dakota durum producers cited the WGTA as the cause. Bilateral export subsidies are not allowed under the FTA. A U.S. Trade Representative study determined that the WGTA was not in violation of the FTA since subsidies currently

granted under the WGTA apply equally to shipments destined to Canada's domestic and export markets.

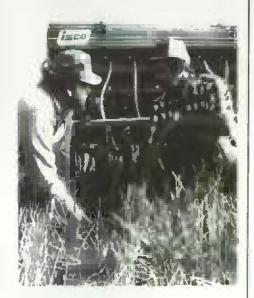
U.S. durum producers have accused the Canadian Wheat Board, Canada's sole legal exporter of wheat and barley, of exporting below the acquisition price. This would mean exporting wheat to the U.S. below the support price the Board offers to Canadian producers.

Because the Canadian Wheat Board does not publish sales prices, it is impossible to know at what price the Board sold wheat to the U.S. However, in 1990 the USITC noted that the North American drought of 1987-89 was a significant reason for increased imports of durum.

The U.S. also has been a target of Canadian criticism for using the Export Enhancement Program in Canadian markets such as Algeria, Brazil, and the Soviet Union, which Canada claims are not traditional EC markets. The Canadian government regards this as a possible violation of the FTA because it claims that the U.S. failed to recognize Canada's export interests when using an export subsidy on shipments to other countries. [Mark Simone (202) 219-0610]



Farm Finance



Ample Credit Is Available

armers remain cautious about taking on additional debt. Adjusted for inflation, U.S. land values have been stable and farm income is forecast to decline slightly this year. Moreover, planted area is expected to remain fairly steady while livestock supplies are forecast to show mild growth. So, in real terms, farmers as a group will use less credit in 1991 than a year earlier. Nominal farm debt may increase slightly, though.

On the supply side, farm lenders are showing signs of excess capacity, especially the commercial banks. Creditworthy farmers wishing to expand will be able to secure financing on more favorable terms than a year earlier.

U.S. farm debt likely declined to \$134 billion in 1990, down an inflation-adjusted 5.2 percent from a year earlier and 48 percent from the 1980 peak. The Farmers Home Administration (FmHA) accounted for the bulk of the 1990 decline by cutting direct lending and by writing off uncollectible loans.

The drop in FmHA loan volume, along with a slight decrease in farm loans held by life insurance companies and a smaller lender category of "individuals and others," offset the loan growth posted by the Farm Credit System (FCS) and commercial banks.

Commercial banks increased their share of farm loans outstanding for the seventh straight year and continue to hold more than any other type of farm lender.

Banks now hold approximately 44 percent of farm loans made by the four major lending groups.

The FCS probably experienced its first increase in market share since 1980, up 1.4 percentage points to slightly over 34 percent. This makes it the second largest farm tender. Insurance companies' share of the market held constant at slightly over 8 percent, but is likely to rise this year.

Loan Quality Is Stable

For the first half of 1990, the delinquent portions of lenders' loan portfolios were mostly steady. The FCS and life insurance companies experienced slight.

increases in the share delinquent, while the delinquency rate for commercial banks was flat, and FmHA's was down. Loan chargeoffs were down for the FCS and the commercial banks. All lenders continued to divest themselves of farm properties acquired through foreclosures.

Farm banks continued to rebound, posting an annualized return on assets of over 1 percent and a return on equity of 11.2 percent for the first half of 1990—the highest since 1983. Capitalization, at 10.2 percent of assets, means most banks would be able to survive any short-term farm financial downturn.

At the farm banks, loans amounted to 55.3 percent of deposits at midyear, down slightly from a year earlier. This indicator of lending capacity is still below historical proportions and the proportions desired by management. So, the bankers wish to extend more credit to qualified borrowers.

Nonreal estate delinquent farm loans remained at 2.5 percent of the portfolio held by commercial banks, while net chargeoffs were less than 0.1 percent of loans as of June 30. Holdings of acquired property fell as banks took

Lower Debt and Higher Income Boost Farmers' Financial Health



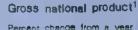
Farm debt per dollar of net cash income.

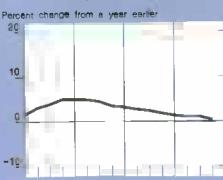
100

General Economic Indicators

Farm Finance







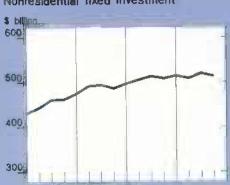
Industrial production 1987 = 100 120 110 100

Disposable income and consumption expenditures²

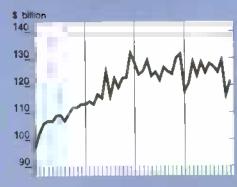
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Nonresidential fixed Investment²



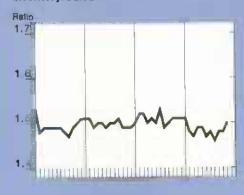
Manufacturers' durable goods orders3



Consumer price Index



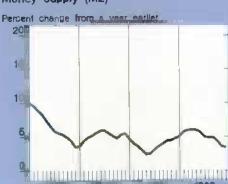
Inventory/sales4



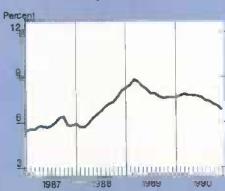
Unemployment rate⁵



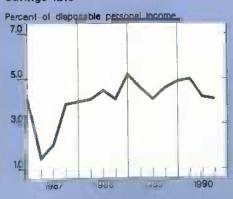
Money supply (M2)



3-month Treasury bill rate



Savings rate⁶



*Billions of 1982 dollars, seasonally adjusted at annual rates Percent change from a year earlier in 1982 dollars, Seasonally adjusted annual rates. Seasonally adjusted 3Norminal dollars 4Manufacturing and trade, seasonally adjusted based on 1982 dollar.

*Calculated from disposition of personal income in 1982 dollars, seasonally adjusted at annual rates

Sources: U.S. Dept of Commerce, U.S. Dept of Labor, and the Board of Governors of the Federal Reserve System.

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Agricultural Outlook

Farm Finance

Agricultural Lende	rs Continue To Rebour	ıd			
Lender and date	Delinquent loans 1/	Share of portfolio 2/	Net loan chargeoffs	Share of portfolio 3/	Value of acquired property 4/
	\$ mil.	Percent	\$ mil.	Percent	\$ mil.
FCS 5/					
12/31/84	5,689	8.7	428	0.5	496
12/31/85	6,465	9.7	1,105	1.4	928
12/31/86	8,137	14.9	1,321	1.9	1.093
12/31/87	5,749	11.6	488	0.8	873
12/31/88	3,757	7.3	413	0.8	661
12/31/89	2,812	5.5	-5	0.06/	461
6/30/90	2,896	5.7	17	0.0 6/	363
mHA 7/					
6/30/84	5,937	21.3	117	0.5	NA
6/30/85	6,385	23.0	234	0.9	638
6/30/86	6,835	24.6	379	1.4	758
6/30/87	7,005	26.7	1,119	4.1	777
6/30/88	8,750	34.5	2,022	7.8	633 8/
6/30/89	8,700	37.1	3,229	12.9	609
6/30/90	6,666	33 4	NA	NA	474
Commercial					
anks 9/					
12/31/84	2,100	5.2	900	2.3	NA
12/31/85	2,600	7.3	1,300	3.3	NA
12/31/86	2,200	7.0	1,200	3.4	414
12/31/87	1,509	5,2	535	1.7	438
12/31/88	1,062	3.5	140	0.5	400
12/31/89	766	2.5	97	0.3	340
6/30/90	790	2.5	15	0.0 6/	328
ife insurance					
ompanies					
12/31/84	1,167	9.6	NA NA	NA	NA
12/31/85	1.717	15.1	NA	NA	692
12/31/86	1,783	17.0	NA	NA	1,442
12/31/87	1,330	14.3	NA NA	NA NA	1,619
12/31/88	808	8.9	NA NA	NA NA	1,226
12/31/89		4.7	NA NA	NA NA	1,110
6/30/90	426 479	5.2	NA NA		832
0/30/90	4/9	5.2	NA	NA	602

NAment available 1/ Includes; for commercial banks and FCS, leans past due 90 days or more and still accruing interest plus leans in nonaccrual status; for FmHA, only principal and interest payments more than 15 days past due; for insurance companies, leans past due 90 days or more plus those in process of foreclosure. 2/ As a percentage of all such leans held at the beginning of the period. 4/ Excludes property held by the Bank for Cooperatives. 5/ 1984 figures not comparable, was a transition year to new accounting principles. Also, Farm Credit Administration publishes changed in 1990. 6/ Less than 0.05 percent. 7/ Includes only data for Farmer Lean programs. Net lean chargeoffs are for the fiscal year, 8/ Decrease from previous period may reflect changes in reporting procedures. 9/ Estimates for bank-held farm nonreal estate leans. Beginning 12/87, chargeoffs do not include lesses qualified for deferred lean loss program.

advantage of stable land prices to sell the properties.

With 18 farm bank failures in 1990 and only 23 weak farm banks at midyear, it is apparent that the stresses of the farm financial crisis continue to dwindle. In fact, farm banks are now among the healthiest groups of banks as problems at larger urban banks continue to mount.

A farm bank is a commercial bank with an above-average concentration of farm loans. As of mid-1990, all banks with more than 16.1 percent of their loans for farming were classified as agricultural banks. Direct FmHA lending during fiscal 1990 dropped \$200 million, slipping below \$1 billion for the first time since 1972. Obligations will continue to trend down because of cuts imposed by the 1990 Budget Reconciliation Act. Guaranteed lending has not made up for the decline in direct lending, but was up somewhat this past year. Outstanding direct loan volume dropped below \$20 billion for the first time in a decade. FmHA is continuing to shift from direct to guaranteed loans.

Through aggressive loan restructuring and increased foreclosures, FmHA is finally reducing its pite of delinquent

loans. At mid-1990, delinquencies stood at \$6.7 billion, down \$2 billion from a year earlier. Net chargeoffs by the agency continue to be high.

FCS Is Using More Rescue Funds

The financial condition of FCS institutions continued to gradually improve during 1990. Loan volume rose slightly to \$51.1 billion and credit quality improved. Net interest income and other income increased while some expenses fell compared with a year earlier.

Farm Finance

Some institutional and regulatory changes obscured the underlying improvement in the FCS performance. Net income declined during 1990 because less money was taken out of loan loss reserves, funds were used to repurchase high-cost FCS debt, and less money was made on the sale of foreclosed properties. New accounting guidelines issued by the Farm Credit Administration (FCA, the FCS regulator) required several System banks to reclassify more of their loans as nonaccruing.

Some FCS institutions remain in weak financial shape. While the last of the Jackson Federal Land Bank's receivership assets and liabilities were disposed during the year, there are four other Farm Credit Banks (of St. Paul, Louisville, Omaha, and Spokane) that have received assistance under the Farm Credit Act of 1987. Most recently, the Spokane bank received assistance in the third quarter of 1990. In total, \$1.26 billion of the \$4-billion line of credit authorized by the Act has been used.

Delinquent loans held by life insurance companies fell more than 40 percent during the 18 months that ended in June 1990, and the value of acquired properties declined 32 percent to \$830 million. Life insurance farm mortgage foreclosures totaled \$204.4 million in 1989, down from the 1986 peak of \$827.5 million. They totaled \$42.1 million the first half of 1990, and \$3.5 billion during 1980-89.

Farm debt held by life insurance companies has declined 28 percent since 1981, but is projected to increase slightly in 1991. Much of the increase will be in relatively large loans.

Farmer Mac Yet To Take Off

Manufacturers Hanover, in conjunction with First Boston Corporation and U.S. Agricredit, announced plans to initiate a market for rural housing mortgages through Farmer Mac last spring. But they have yet to make their first offering. A farm-backed offering is planned for a later date.

Farmer Mac's startup has been hindered by regulatory capital requirements for the retained portions of the loans sold, regulatory lending limits for banks, problems standardizing agricultural loans, problems making the securities competitive, excess funds available at agricultural banks, and the increase in the difference between short- and long-term interest rates.

The FCS faces significant hurdles as well. FCS institutions must meet a 7-percent capitalization standard by 1993 that will require some of them to make substantial additions to current capital or sell assets.

By 1995, FCS bonds are to be self-insured through an insurance fund based on total loans outstanding. However, pre-liminary plans call for the fund to be collected and administered by the FCA. Further, each farm credit bank will be able to carry its contributions to the fund on its balance sheet, increasing the bank's capital. Some observers are concerned that these actions represent the resumption of the close relationship that existed between the FCA and member institutions before 1987.

Ag Banks Are Facing Reforms

This year, agricultural commercial banks likely will have to cope with: reform of the federal deposit insurance system, recapitalization of the deposit insurance fund, new investment and insurance powers, fewer restrictions on branch office location, and the merger of the three federal bank regulatory agencies.

Currently, the deposit insurance fund is paid for by covered banks through a flat fee per dollar of domestic deposits. So the most risky banks pay the same for protection as the most conservatively managed banks. Further, the government policy of "too big to fail" dictates that all deposits are covered by the FDIC when a large bank fails, but sometimes only deposits up to \$100,000 are covered when a small bank fails.

The smaller risk to depositors at big banks means the big banks can pay lower interest rates than small banks. Rural and agricultural banks overwhelmingly fit into the "small" category. Large banks also have the advantage of not having to pay insurance premiums for foreign deposits.

In mid-February, bank industry representatives released a proposal to recapitalize the FDIC's bank insurance fund. The proposal needs regulatory approval and some legislation. The industry is calling for:

- the FDIC to raise \$10 billion by selling federally guaranteed bonds to the banks.
- the FDIC to charge the banks a higher insurance premium to repay the bonds equal to 4 cents for every \$100 in assets less capital, and
- the Federal Reserve System to lend up to \$2 billion of bank-owned reserves to the FDIC to help banks near failure to merge with more healthy institutions.

Big banks probably will resist the assetbased increase in insurance premiums, while the Fed will want to study the proposal to use bank reserves. [Douglas G. Duncan and Jerome Stam (202) 219-0892] [AO]



Resources



California Growers Face Drought

alifornia growers are living through one of the state's longest and most severe droughts. And this year has been one of the driest ever recorded. The drought's magnitude and duration are overwhelming the state's sophisticated water system that provided normal water supplies through the first 3 years of the current drought and enough water last year to avoid major economic hardship.

Among California's livestock producers, those with forage-based operations will be hit the hardest. But the state's output of most fruits and vegetables will be near normal because some water will be diverted from field crops, and many growers depend on groundwater and water from the Colorado River Basin. Still, the output of many irrigated field and forage crops—cotton, rice, sugarbeets, and hay to name a few—will be down sharply and prices will rise.

California typically receives over 90 percent of its precipitation during October-May, so a few months remain in the typical California "wet" season. The forecast, however, is for only limited relief. By the end of January, about half the water year's precipitation typically is on the ground. This year, sites in major river basins reported 10-30 percent of normal. There is only a 10-percent probability that precipitation and runoff will be normal this year.

The California surface water system depends largely on snows in the Sierra Nevada and Cascade Mountains running off into storage reservoirs in the spring for irrigation and urban uses in the summer. Reservoirs are about half of the normal early-February levels for the Bureau of Reclamation's Central Valley Project. Reservoirs supplying the California State Water Plan and other water systems, such as Los Angeles and San Francisco, are similarly low.

Grower Supplies Likely To Be Tighter

Allocations of irrigation water from surface sources will be cut by more than last year's 50 percent (see the September 1990 Agricultural Outlook). On February 5, the California State Water Project announced that it will deliver no water to its agricultural customers.

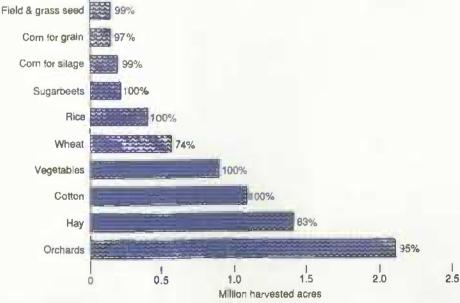
California's largest supplier of irrigation water, the Bureau of Reclamation, announced that it will deliver only 25 percent of normal supplies to agricultural customers. Water deliveries announced at this time are subject to change because 3 months of the precipitation season remain.

The state government is directing all communities to implement water conservation and drought management plans. These plans are to consider the case of a 50-percent reduction in water supplies. Drought pressures in rural areas are often the greatest, and many rural water systems are expected to run dry.

The state government has also announced it will buy this year's water allocations from willing agricultural sellers, pool it, and use it to help meet the most critical needs later in the year. The state would like to purchase at least 500,000 acre-feet of surface water to help meet this year's urban, agricultural, and environmental needs and to increase critically low storage levels. State purchases will involve idling agricultural lands or increasing groundwater use.

In a normal year, California's irrigated agriculture accounts for 82 percent of all fresh water withdrawals, of which 37

California's Crops Are Heavily Intigated



1987 acreage data. Percents are share of harvested acreage irrigated.

Bulk of California's Irrigated Land is in the San Joaquin River & Tulore Basins



1987 acreage data. 1 dot = 2,000 acres. Irrigation data accurate at the county level.

percent is returned to the hydrologic system. Surface water makes up about 60 percent of agriculture's supply in a normal year.

Last year, the drought reduced surface water availability, prompting groundwater use to rise to 60 percent of the total. The pressure to repeat the high groundwater use will be even greater this year. There is, however, some doubt that underground sources will be able to supply more.

The gap between agricultural demand and water supplies will widen. For example, if surface water suppliers are able to deliver 25 percent of normal supplies and ground water provides 60 percent of normal needs, there would be a shortfall of about 30 percent relative to a normal year. This is more than the 15- to 20-percent shortfall of 1990, and there will be some output losses.

The Options Have Narrowed

Last year, a statewide drawdown in reservoir stocks for all purposes of about 3.2 million acre-feet was required despite cuts in deliveries. The widespread availability of groundwater, the use of some

emergency supplies, reservoir drawdowns, conservation, and the innovative use of the water delivery infrastructure enabled growers to exchange water from different sources and suppliers to avoid widespread production losses. Irrigated output was reduced in some areas without access to alternative water supplies.

It now appears that last year's experience will not be repeated. There will be an economic impact from the 1991 drought. The question is how deep and how wide.

This year, there are only slim reservoir stocks to rely on. And, in contrast to last year, it is unlikely that more groundwater can be pumped because new wells cannot be added rapidly enough. Moreover, rising pumping costs may limit profitable withdrawals in some areas.

In fact, there is some evidence that less water will be pumped this year. Some aquifers were stressed by last year's full-bore pumping. The rate of groundwater mining has doubled or tripled in parts of the San Joaquin Valley compared to predrought years. There are reports of unprecedented water declines, with some wells going dry and others providing less.

Declining water quality from salt water intrusion is a concern in areas near the

coast. It is also a concern in areas pumping from aquifers over rocks made of compressed sea sediments. The rocks sometimes contain brackish water that is pulled up by high pumping rates.

Groundwater also will cost more. As groundwater levels decline, more energy is required for pumping. In addition, electric power, the energy source for 90 percent of the groundwater used for irrigation, will cost more per kilowatt hour. The drought has reduced the water available for local hydropower production. More expensive thermoelectric and imported power will be needed.

Another response last year was to trade current water supplies for compensation. For this to occur someone must have extra water to trade. This year, fewer producers will have it unless they cut crop output.

Last year, urban and agricultural water use reductions allowed the supply to be allocated so that widespread economic hardship was avoided. There are fears that this year may be different.

The State Water Resources Control Board met in emergency session to consider "temporary" suspension of agricultural surface water rights to ensure the minimum hardship to California's citizens. Even considering such a move is an unprecedented step.

Effects on Farming To Be Uneven

Preliminary water supply conditions allow farmers to start planning their response strategies. While it is too early to determine what adjustments will occur, some observations are possible.

Very poor range conditions and upward pressure on forage prices will put intense pressure on livestock farmers. Lower incomes and higher costs will hit forage-based dairy, beef cattle, and sheep producers. In light of the record-high beef prices, though, breeding herd inventories will be maintained as long as possible. Dairy producers, through marketing cooperatives, have some ability to pass a

Resources

part of the higher costs on to consumers. Beef cattle and sheep producers do not.

Vegetable and other annual specialty crop output probably will be near normal. These crops tend to be more profitable than most, so producers will place a high priority on irrigating them. Several important vegetable production areas, including the Salinas, Imperial, and Coachella Valleys, do not depend on current California precipitation for irrigation water supplies.

For example, the Salinas Valley and other areas in the Central Coastal Basin account for about 25 percent of California's vegetable acreage and depend almost entirely on groundwater. The Imperial and Coachella Valleys in the "Colorado Desert Area" grow about 15 percent of the state's vegetable output by drawing water from the Colorado River. Supplies there should be ample.

The production of orchard crops will be significantly reduced on the 5 percent of the state's orchard acres that are served by the State Water Project. Water from other sources will be needed to keep the orchards alive. In areas with limited water supplies, water will first be used to keep these high-investment perennials alive before seeking any production. Those areas not dependent on surface water will have little if any planned cuts in output.

The seven counties with the largest orchard acres, accounting for over 60 percent of the state total, are in the San Joaquin River Basin, one of the hardest hit areas in terms of surface water supply. Fortunately, most growers there have access to groundwater. But because of higher costs and limited water supplies, growers' net incomes in these counties stand to drop substantially.

There will be acreage reductions in field crops irrigated with surface water (cotton, rice, wheat, corn, and other feed grains). But by how much will only be known after planting.

It is even harder to quantify the impact of the prolonged drought on forests, wildlife, and ranges, although anecdotal evidence points to severe consequences. Reports indicate the loss of 12 billion board-feet of timber from the drought and related pests. That's enough to build 1.2 million homes.

Wildlife and fishery numbers are declining. Significant water releases may be needed to adjust salinity and temperature to encourage spawning of threatened fish species. Water for these releases may be difficult to find.

Who Will Get The Water?

If the current trend continues, some hard choices must be made as to who has priority for the limited water supplies—farmers, the cities, or the environment.

On January 29, hearings were called by the California State Water Resources Control Board. Several points relating to the temporary modifications of agricultural surface water rights were discussed, including:

- ordering that perennial crops to get first priority for surface water;
- ordering that perennial crops be irrigated for survival and not production;
- limiting surface water use to only perennial crops, municipal uses, and minimum environmental flows; and
- relaxing minimum environmental levels.

It is too soon to predict which, if any, of these temporary modifications may become effective. Much depends on the precipitation in the next 3 months.

In the 1930's, California experienced 6 drought years. The state's population is about 5 times greater now. The current drought has lasted as long as any on record with this severity. And 1991 could be among the driest years on record. The February-April weather forecast calls for near-average precipitation for the state. [Noel Gollehon (202) 219-0410]

Food and Marketing



Food Price Increases Remain Muted

n 1991, U.S. retail food prices are expected to rise 2-5 percent. That's unchanged from the Department's first forecast, released late last November. The forecast is consistent with the current economic contraction, the Gulf war, and the freeze-damaged California fruit crops.

With larger domestic supplies of most foods, the war is unlikely to noticeably affect retail food prices. And while the California freeze will push up fruit prices, the effect on overall food prices will be slight. But a deepening of the California drought would add some uncertainty to this forecast (see the Resources Department).

Recession's Impact Will Vary

In 1990, for the second consecutive year, the Consumer Price Index for food averaged 5.8 percent above a year earlier.

The gain was slightly larger than the 5.4-percent increase in the overall CPI.

Food and Marketing Indicators

Food and Marketing

CPI: Total food®



CPI: Food at home



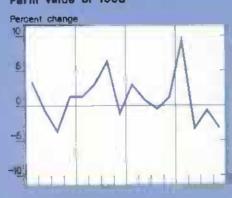
CPI: Food away from home



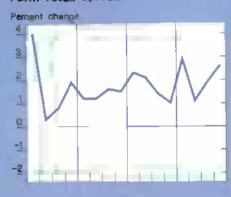
Retail coat of food¹



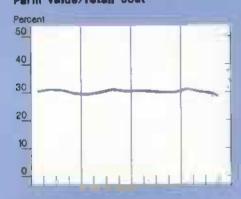
Farm value of food1



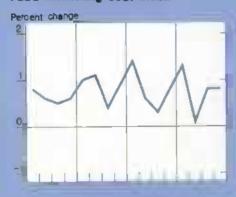
Farm-retail apread1



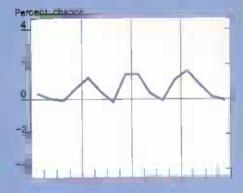
Farm value/retail coat¹



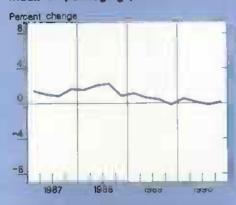
Food marketing coat index²



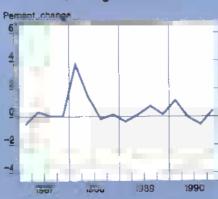
index of hourly earnings^{3,4}



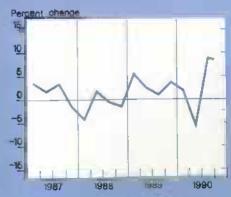
Index of packaging prices⁴



Index of rall freight rates



index of energy rates4



^{*}CPI unedjusted: *Index based on market basket of farm toods. *Index of changes in labor, packaging, transportation, energy, and other marketing costs. 3 in food retailing, wholesaling, and processing. 4 Component of tood marketing cost index.

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Flood and Marketing

Prices for food sold in grocery stores last year averaged 6.5 percent above 1989, while food sold in restaurants and fast food establishments rose a more modest 4.7 percent. The CPI for food has risen at a faster pace than the CPI for all items for 4 of the past 5 years. That will not continue in 1991.

Consumer demand for food, especially food away from home, drops as employment and personal income recede. Inflation slows in time of recession, slowing increases in the labor, packaging, and transportation costs of processing and distributing food. In 1991, the recession will push down consumer demand and inflation, working to hold down food price increases.

But also during a recession, investments in plant and equipment are often post-poned because producers lack confidence in the economy. Such production decisions tend to limit growth in food supplies and put upward pressure on retail food prices. This may partly explain the slow expansion in pork output last year and this year.

Freeze Lifted Fruit Prices

Seldom does cold weather damage crops in California. Nevertheless, the last 2 weeks of December saw below-freezing temperatures in the San Joaquin Valley. Nearly two-thirds of the California navel orange crop and about one-half of the valencia crop were wiped out.

Other fruits and vegetables were damaged as well, but this will have little if any effect on overall consumer food prices. Remaining oranges coming from California this year will be from the southern part of the state where weather damage was less severe.

Retail prices for fresh oranges will be higher in 1991 because of the California freeze. While this season's Florida orange crop is particularly large and will help fill some of the void in fresh market supplies, it cannot do the whole job. Most of the Florida orange crop is grown for juice and the fruit is not usually considered attractive enough for fresh marketing.

This year, however, a television ad campaign is telling consumers that Florida orange quality is good despite the appearance. Even so, fresh market orange supplies will be well below last year.

As a result, consumers will be buying other fruits, putting upward pressure on fresh fruit prices in general. The CPI for fresh fruit is now expected to rise 4-7 percent in 1991 rather than the 0-3 percent forecast prior to the freeze. While this is a sharp change in the fruit CPI, overall food prices are not much affected.

The CPI for dairy products is expected to average as much as 3 percent below last year. Demand for fluid milk by manufacturers has subsided because stocks of processed dairy products are more normal. Farm milk prices have fallen and retail prices also have started to drop.

High milk prices over the last 2 years reflected reduced production following the 1988 drought and particularly strong demand for processed dairy products.

Meat production is expected to increase in 1991. Poultry output likely will grow 5 percent, but red meat production will increase at a slower 2 percent. This year is expected to be quite different from 1990, when red meat prices rose 9 percent as output slipped for the second consecutive year.

In 1991, with slightly higher production, red meat prices are expected to rise a much slower 1-4 percent. Poultry prices likely will decline from 1990 because of larger supplies.

Fresh vegetable prices probably will average below last year, when first-quarter supplies were cut by a late December 1989 freeze that damaged production in Florida and Texas.

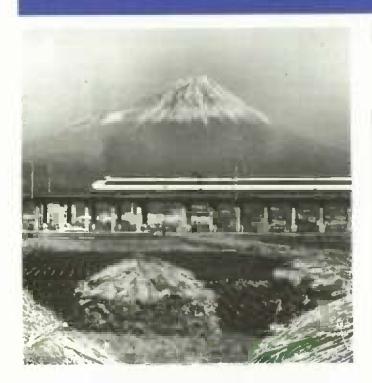
Weather conditions in the winter-vegetable growing areas have been more favorable this year and no major supply disruptions have occurred. A few crops were slightly damaged by the freeze that hit California, but the majority of vegetables at that time of year come from Florida and Mexico, and markets were barely affected. [Ralph Parlett (202) 219-0870] AO

Egg, Poultry, Dairy, and Vegetable Prices To Drop

	1988	1989	1990	Forecasi 1991
Consumer Price Indexes		Per	cent	
All tood	4,1	5.8	5.8	2 to 5
Food away from home	4.1	4.6	4.7	4 to 6
Food at home	4.2	6.5	6.5	1 to 4
Meat, poultry, and fish	3,5	5.0	7.3	0 to 3
Meats	2.4	4.0	10.1	1 to 4
Beef and veal	5.5	6.4	8.0	1 to 4
Pork	-3.0	0.6	14.7	-1 to 2
Other meats	2.6	2.8	9.3	1 to 4
Poultry	7.2	9.9	-0.2	-5 to 0
Fish and seafood	5.8	4.5	2.2	2 to 4
Eggs	2.3	26.6	4.7	-10 to -5
Dairy products	2.4	6.6	9.4	-3 to 1
Fats and oils	4.6	7.2	4.2	4 to 6
Fruits and vegetables	7.6	8.5	8.0	1 to 4
Fresh fruits	8.3	6.6	12.1	4 to 7
Fresh vegetables	6.3	10.7	5.6	-3 to 1
Processed fruits & vegetables	7.9	6.3	6.2	3 to 6
Processed fruits	10.3	3.2	8.7	1 to 3
Processed vegetables	4.8	10.7	2.7	3 to 6
Sugar and sweets	2.7	4.7	4.4	4 to 6
Cereals and bakery products	6.4	8.4	5,7	4 to 6
Nonalcoholic beverages	0.0	3.5	2.0	3 to 6
Other prepared foods	3.7	6.4	4.5	4 to 6

Forecasts by Economic Research Service, USDA.

Special Articles



East Asian Ag Markets Becoming More Complex

wan, and Hong Kong are large and growing markets for U.S. agricultural exports. In fiscal 1990, of the top ten U.S. country markets, Japan ranked first, Korea fourth, and Taiwan sixth. The four together have replaced the EC as the top U.S. regional market since 1984. And they now account for almost twice the EC's share of U.S. agricultural exports.

The share of U.S. agricultural exports going to the four Asian countries rose from 20 percent in 1968 to a high of 33 percent in 1990. In fiscal 1991, although U.S. exports to the region are forecast to decrease 2 percent, the share will increase marginally.

The four densely populated markets have had rapid economic growth and low inflation for the past 25 years. However, population and income growth, key determinants of import growth, have recently been slowing. Agricultural import growth, although still strong by world standards, has likewise slowed, especially for bulk commodities.

Although bulk commodities still account for over half of U.S. exports, the Pacific Rim economies appear to be shifting to imports of high-value products relative to bulk commodities. Growth in East Asian livestock product imports relative to feed imports is a key factor in this shift.

Will East Asia's import growth continue to slow in the 1990's? Or will the shift from bulk commodities to high-value products be sufficient to boost import growth above the 1980's rates? U.S. exporters will be closely watching how maturing markets shift their demands for agricultural imports.

Major U.S. competitors in the region include Australia for grains, cotton, and beef; the EC for grains, poultry, and processed products; the Soviet Union for cotton; China for grains, soybeans, and cotton; Canada for grains, oilseeds, and pork; and Brazil and Argentina for soybeans.

Japan Is Buying More High-Value Products

Japan has been the leading single-country market for U.S. agricultural exports since 1963. In fiscal 1990, U.S. exports were \$8.1 billion, down slightly from a peak the year before. In fiscal 1991, exports are expected to remain about the same.

After falling off in fiscal 1985 and 1986 because of depressed commodity prices and lower U.S. shares in key markets, U.S. farm exports to Japan started to take off in fiscal 1987. Lower loan rates under the 1985 farm act provided an important impetus by making some commodities, such as grain and cotton, more competitive. And the yen strengthened significantly against the dollar, making U.S. products cheaper.

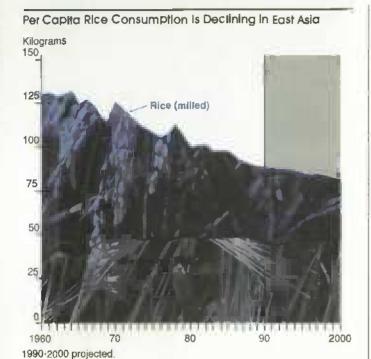
U.S. agricultural trade with Japan still relies heavily on grains and soybeans. Since the mid-1980's, however, the U.S. has been expanding exports of high-value and processed products, including beef and citrus. Japan's imports of high-value products rose from 20 percent of its total agricultural imports in 1970 to 45 percent in 1988.

The shift accelerated after 1985 for various reasons, including tariff reductions, deregulation of cigarette imports, the 1988 Beef-Citrus Agreement, a GATT agreement that removed or expanded quotas for some processed agricultural products, and the substantial appreciation of the yen.

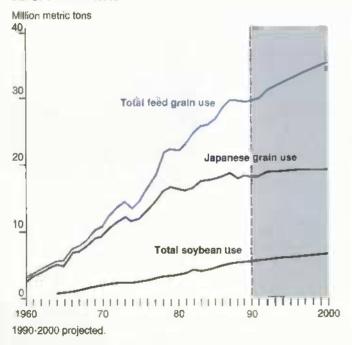
The trend toward a greater proportion of high-value imports is likely to continue, but will depend largely on how much more Japan liberalizes its agricultural markets, its rate of economic growth, the value of the yen, and the competitiveness of Japan's farming and food processing concerns. Falling trade barriers should help lower the real retail prices facing consumers, thereby boosting consumption. This assumes that distribution patterns will allow price competition.

While Japan's economic growth has gone on so long that markets for many products have matured and are now growing slowly, consumption of livestock products is an exception. Meat, and to a lesser extent, dairy consumption is expected to continue rising rapidly through the 1990's. Gains in livestock product consumption would reflect lower real prices along with continued advances in incomes and appetites for western foods. The growth in meat, dairy, and egg product imports will cause

Special Articles



East Asian Feed Use Continues To Expand. But at a Slower Rate



Japan's total agricultural imports to rise steadily through the 1990's.

The growth in meat and dairy imports is pressuring Japan's domestic industries, and slowing local output growth. And import competition is forcing domestic producers to use feed

more efficiently. As a result, feed grain and oilseed meal consumption growth probably will slow.

Japan's rice economy is ripe for structural change. Farm size remains very small, about 2.5 acres on average. Needed labor is disappearing because wages are higher in nonfarming sectors. And returns to labor on the smaller farms are shrinking as the government cuts the real producer price of rice.

Even if Japan does not liberalize rice trade, the days of myriad small rice farms probably are numbered. Now, rice imports are almost entirely banned.

Future land use patterns will differ as rice farms consolidate. The effects on trade will depend in part on what crops are planted as the structural shift occurs, but production of wheat, soybeans, and barley likely would drop. Still, lower cost rice would be grown on larger farms—Japan has large areas well-suited to rice farming. Major questions remain about how to consolidate and whether costs could ever drop enough to make rice farming profitable without high trade barriers.

Korea To Buy More Convenience Foods

For the past 15 years, Korean agricultural imports have consistently driven up world agricultural trade. Strong economic growth there has fueled increased consumption of high-value products. The U.S. has been the leading supplier. U.S. agricultural exports soared from about \$300 million in 1970 to \$2 billion in 1980, fluctuated between \$1 billion and \$2 billion through most of the 1980's, and reached \$2.7 billion in fiscal 1990.

Consumption of livestock products has grown the most, and Korea has sought to protect its domestic livestock industries with strong trade barriers. During 1975-85 imports of corn and soybeans boomed, chiefly for feed. The U.S. was the main supplier.

Since 1985, Korean imports have diversified, even though livestock product consumption and animal feeding have continued to expand rapidly. Imported feed wheat, rapeseed meal, and soymeal have taken large shares of the feed grain and soybean markets in some years. Greater diversity in feed imports has benefited China, the EC, Brazil, and several other countries, and helps to explain the drop in the U.S. share of Korea's agricultural import market in the mid-1980's.

Korea's pork, poultry, and dairy industries evolved throughout the 1980's toward larger, more modern enterprises. Continued growth is expected in the 1990's. One probable outcome is greater feeding efficiency.

Beef cattle supplies, on the other hand, have not grown quickly or smoothly enough to meet fast-rising demand at reasonable prices. Beef imports were allowed during 1978-83, and again beginning in 1988. For periods in the mid-1980's, only beef for airline catering was allowed.

Prospects are good that Korea will be a large, permanent importer of beef. The U.S. supplied 39 percent of Korea's beef imports in 1990. Following a GATT ruling, Korea has agreed to dismantle its beef import quotas or bring them into conformity with GATT rules by 1997, and imports likely will grow substantially during the 1990's.

Food grain imports were stable over most of the 1980's. Food use of grains did not rise with income gains, and population growth has slowed. Barring disastrous weather or a major loosening of its trade barriers, Korea is not expected to again become a rice importer. Per capita food consumption of wheat has been flat since 1980. Wheat imports for food and industrial uses are expected to remain steady through the 1990's.

Korea is a major importer of cotton and cattle hides for its textile and footwear industries, but these imports are not expected to grow this decade. Korea's labor costs rose sharply in the late 1980's, and trade barriers abroad have limited the growth of Korean exports.

A massive cultural change has accompanied Korea's rapid economic growth. Society has become heavily urbanized, with more meals eaten away from home and more convenience foods used in the home.

Experimentation with and acceptance of western-style fast foods has been widespread. Such changes are expected to proceed through the 1990's, and will stimulate high-value imports of raw materials for food processing as well as finished products. However, Korea's future import patterns depend heavily on the outcome of disputes about its trade barriers.

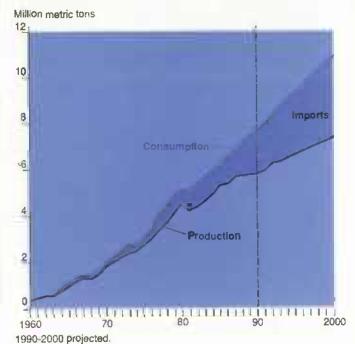
Taiwan Is a Hot Prospect

Taiwan was the fastest growing market in the Pacific Rim for U.S. agricultural exports during the past two decades. In fiscal 1990, U.S. farm exports to Taiwan reached \$1.8 billion. With rising incomes, a growing preference for western-style foods, a dwindling agricultural sector, and some trade liberalization likely, Taiwan's demand for agricultural imports will continue to grow.

As the largest supplier of Taiwan's farm imports, the U.S. is in a good position to increase its agricultural exports, especially of high-value products.

Because of limited resources and climate, Taiwan has depended almost totally on imports of inputs for its livestock, flour milling, and export-oriented textile and leather goods industries. Fast growth in these industries has spurred the rapid growth of U.S. agricultural exports to Taiwan. Imports of high-value products also grew significantly in the 1980's.





Taiwan has high tariffs, particularly on high-value products, and bans on imports of rice, chicken meat, animal offals, and peanuts. Yet a number of characteristics offer good growth prospects for U.S. exporters. Per capita income is already on a par with the low- to middle-income developed countries. Taiwan's economy is forecast to continue growing in the 1990's, although perhaps at a slower pace.

Taiwan's foreign exchange reserves, which have fluctuated between the world's first and third largest since the mid-1980's, will remain large. And Taiwan's dollar is forecast to remain strong, which will help keep down import prices.

Bulk commodities will continue to dominate U.S. agricultural exports to Taiwan in the 1990's, but growth likely will slow. High costs and a strong currency will cause the textile and leather goods industries to decline as the electronics and information industries accelerate. Livestock production will continue to expand but at a slower rate, in part because of pollution concerns.

With more than 20 million people living mostly in urban areas and with high incomes, Taiwan is an ideal market for U.S. high-value exports. In addition, under the Integrated Agricultural Adjustment Plan, only staples such as rice and uncompetitive, but politically sensitive, products such as peanuts would be protected from foreign competition. The Plan, when implemented, should facilitate tearing down Taiwan's tariff and non-tariff barriers—particularly for intermediate and high-value products.

Since applying for GATT membership last year, Taiwan has prepared to bring agricultural support and trade policies in line with GATT requirements. However, significant agricultural

Special Articles

liberalization will await the disposition of the application, which is complicated by political considerations.

In the interim, Taiwan probably will make modest reforms. But Taiwan's agriculture cannot provide at competitive prices the kinds, qualities, and quantities of farm products demanded by an increasingly prosperous and sophisticated population. Agricultural imports will continue to grow. But trade liberalization would speed the trend.

Hong Kong's Lease Raises Questions

Although only a small colony of 6 million people, Hong Kong provides a large outlet for U.S. farm products, ranking among the top 15 markets worldwide. U.S. agricultural exports to Hong Kong rose substantially over the last two decades, reaching a record \$685 million in fiscal 1990. Hong Kong has been an especially good market for U.S. fresh fruits and vegetables, poultry meat and eggs, mink skins, ginseng, cotton, tobacco, and cigarettes.

Some of Hong Kong's bulk imports, such as tobacco and cotton, are used to support production for the local and export markets. As a major trade center, Hong Kong also imports various agricultural products for reexport to other mostly Asian countries, and this trade has grown in recent years.

With high per capita incomes, Hong Kong's population enjoys a wide variety of traditional and western foods. As incomes and the desire for more convenience foods grow, consumption and imports of high-value and processed products are likely to expand. As the colony practices essentially free trade, price

East Asia's Agricultural Import	
Values Slowed the Most for Bulk Commodities 1/	

Country	1970-79	1980-88		
	Per	Percent		
apan				
Bulk 2/	6.0	-1.9		
High value 3/	12.9	5.5		
геа				
Bulk	11.4	0.9		
High value	22.8	11.2		
wan				
Bulk	11.9	1.5		
High value	21.1	4.0		
ng Kong				
Bulk	7.0	2.1		
High value	7.9	3.4		

1/ inflation-adjusted annual average growth rates 2/ includes grains, oilseads, cotton, wool, tobacco, sugar, hides and skins, raw sugar, live animals, and natural rubber. 3/ includes meats, other semi-processed and highly processed foods, some unprocessed items such as fruits and vegetables, and cigarettes.

Source: Derived from UN trade data.

and quality are key factors in determining competitiveness in this market.

Hong Kong's political and economic future is uncertain. The British colony will be remanded to the People's Republic of China in 1997. But Hong Kong still will have to rely on imports for most of its food and raw materials. China traditionally has been the largest supplier of agricultural products to Hong Kong, but whether this dependence increases will hinge largely on China's ability to meet the needs of its own huge market.

Certain economic and policy developments likely will influence the colony's major agricultural imports, including pork, poultry meat, tobacco, and cotton. Because of strict pollution control measures, Hong Kong's own small pork and poultry industries probably will continue to contract, necessitating greater imports of live animals or fresh and frozen meat.

A vigorous government anti-smoking policy stands to depress cigarette consumption in the colony, which would cut U.S. tobacco and cigarette exports. Hong Kong's textile industry, a large user of imported cotton, is facing higher land and labor costs. And the industry faces less beneficial world trade rules regarding textiles, depending on the results of the GATT talks.

Looking to the 1990's And Beyond...

The 1990's promise continued strong increases in overall East Asian agricultural trade. However, the shifts among commodities evident in the 1980's will intensify, and overall growth probably will be slower unless some substantial trade barriers are removed.

Three important categories of trade will see little or no growth. Among them are cotton and hide imports. Given the region's high labor costs, some of the economies will have trouble maintaining current imports.

Another no-growth area is grains for direct food use. Wheat imports have flagged throughout the region in the last decade, and consumption per person has not grown since the late 1960's. With population growth slowing, wheat imports are not likely to increase.

Rice consumption per person has dropped steadily through most of the region, but is still substantial and very expensive by world standards. However, except for Hong Kong, stiff trade barriers bar rice imports.

The third low-growth area is Japan's feedstuff imports. Japan's meat and dairy consumption still is growing strongly, but the growth is being met mostly by imports rather than by domestic production.

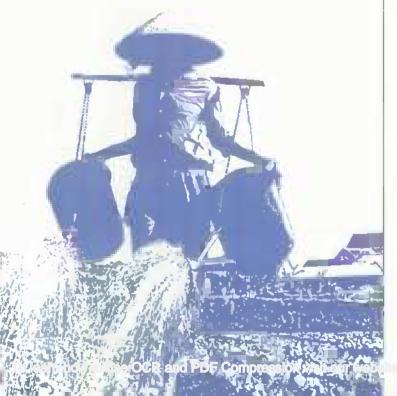
Increased beef imports are the main reason for the projected surge in meat trade. Steadily rising consumption will outpace production, resulting in growing imports. The projections assume significant consumer price declines in Japan and considerably improved import access in Korea and Taiwan.

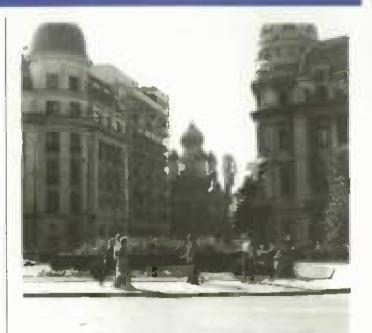
Aside from allowing limited beef imports, the livestock industries in Korea and Taiwan are still almost completely protected from trade. If trade barriers largely disappeared, Korea's and Taiwan's meat imports would grow faster while their feed import growth would slow.

Assuming a continued strong performance by the region's four economies, meat imports would nearly double by the end of the decade. Grain imports would rise by about 7 million tons, below the roughly 10 million tons added in the 1980's, and much less than the 16 million tons added in the 1970's. Soybean imports could rise by 1.9 million tons, almost as much as in the 1980's. The increased value of meat imports would outweigh the downward shift in grain import growth.

During the 1990's, the overall value of staple commodities imported, including meat, should rise. But growth could slow considerably after 2000, as livestock product consumption levels off. Nonetheless, a large variety of high-value agricultural products besides meats should find favorable markets in the 1990's and beyond because of income growth, cultural change, and the gradual lowering of trade barriers.

High-value items will increasingly dominate the trade in farm goods to East Asia. Maintaining or increasing U.S. market share in the region will depend on the ability of U.S. exporters to tap into these expanding markets. [Lois Caplan, John Dyck, Carol Goodloe, and Sophia Huang (202) 219-0610]





Soviets Retreat From Economic Reform

Progress toward substantial economic reform of the ailing Soviet economy has stalled. Last September, the Supreme Soviet considered a radical, market-oriented reform package. The package called for establishing the basics of a market economy, including market-determined prices, regulated capital markets, and increased private property rights within 2 years.

However, the Supreme Soviet failed to adopt the proposal for two crucial reasons. First, the program had numerous inconsistencies and understated the difficulties associated with reform. Second, strong broad-based resistance to radical economic changes existed outside the top levels of government.

The fate of Soviet agricultural reform is tied to the failed general reform efforts. Successful farm-sector reform is crucial to any economic reform in the USSR, in part because the lion's share of disposable consumer income (70 percent) is spent on food and fiber products. Agriculture and the food industry account for one-third of Soviet employment and investment, well above the U.S. proportions.

Moreover, the recently proposed retail price hikes and increases in incomes represent a nonmarket strategy to overcome the simultaneous problems of retail food shortages and budget deficits. If implemented, the reform would cut food demand and modestly reduce the demand for agricultural imports. But the reforms will have only a small impact on the budget deficit and not increase domestic agricultural production.

Special Articles

Soviet Economy Is Sliding

Massive subsidies, equivalent to 10 percent of the USSR's annual national output, are channeled to the agricultural sector. The subsidies arose from holding retail prices constant despite steady growth in production costs and prices paid to farms. Their rapid growth has played a major role in Gorbachev's inability to control monetary and fiscal policy.

It appears that **So**viet economic reform had made very little progress at its apex. The USSR was nowhere close to making a successful transition to a market economy.

The environment for economic reform has deteriorated considerably since last fall's deliberations in the Supreme Soviet. The last 18 months have witnessed a continuous slide in the Soviet economy. GNP is declining at an accelerating rate, while inflationary pressures continue to build. Crisis management, with heavy reliance on administrative control, increasingly characterizes the government's approach to economic problems.

Most key economic advisors associated with market-oriented reforms have resigned from Gorbachev's USSR government and Boris Yeltsin's Russian Republic government. This underscores the retreat from reform.

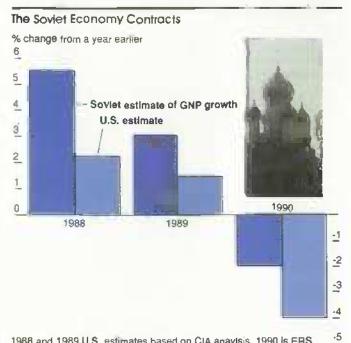
With market reformers in retreat and prospects fading for market-oriented price liberalization, a reassertion of central control over economic activity appears inevitable. Such a move would seriously threaten any hard-won farm, enterprise, or republic autonomy.

While the government has recently proposed a one-time hike in retail food prices of 200-300 percent, markets still would not determine prices. Under the proposal, bread and meat prices in state stores are to increase 300 percent. Butter and vegetable oil prices would rise 200 percent, while milk prices would go up 130 percent.

Even though the higher prices would approximate current production costs, they likely would be frozen at their new levels. So, retail food subsidies and excess demand would resume their growth. And the reform calls for higher wages to be paid by the state, offsetting much of the potential budget savings.

According to the proposal, about 30 percent of consumer prices are to be set by negotiations between wholesalers and retailers, or be free to move within a given band. Prices of fruits, vegetables, and potatoes have been set this way for years. While this could represent a small step toward liberalized pricing, it falls far short of what was proposed last fall.

Soviet agricultural trade will remain strongly influenced by production, domestic price and monetary policies, and hard-currency availability. Because of current economic policies, there is little reason to anticipate much improvement in agricultural production. However, the recently proposed increases in retail food prices would cut the amount demanded.



1988 and 1989 U.S. estimates based on CIA analysis. 1990 is ERS preliminary estimate."

If the price reforms are implemented, Soviet agricultural imports would decline modestly. However, if the USSR's general economic situation continues to deteriorate, forecasts of Soviet imports based on the nation's domestic supply and use trends are likely to be too high.

Vested Interests Block Ag Reform

President Gorbachev is linked in the minds of many in the West with agricultural reform because of his call for the revival of private peasant agriculture and traditional ties to the land. But resistance to agricultural reforms arose for a number of reasons, including:

- the strength of entrenched farm conservatives,
- the monopolistic organization of the preexisting administrative-command economy,
- a political reluctance to deal with retail price subsidies, and
- deficiencies in the Soviet banking and capital markets.

Except in the Baltics and other small republics, conservatives dominate the agricultural policy debate. The Agriculture and Food Committee of the Supreme Soviet, which is responsible for drafting agriculture policy, is heavily influenced by the "agrarian lobby." State and collective farm managers, backed by conservative government and industry officials, make up the lobby.

The lobby argues that state and collective farms are not responsible for the dismal record in agriculture because their hands have been bound by the administrative-command system.

The lobby advocates greater autonomy for existing farms without restructuring farm ownership or management. It also advocates increased investment. And the lobby has made price parity between agriculture and industry a sacred element in the economic reform debate. That is, as input prices rise to more truly reflect costs, state and collective farms should be fully compensated by procurement price increases.

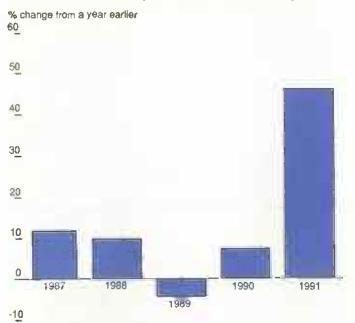
This lobby prevailed last fall, when prices paid to farms increased 32 percent, more than enough to compensate for planned increases in input and credit costs. In addition, a special fund of 17 billion rubles was created to finance investment for financially weak state and collective farms. This represents one-third of all current farm investment.

The slow rate of reform shows how successful the lobby has been. Despite the extensive discussion about private peasant farms, neither the USSR Supreme Soviet nor the large republics considered policies calling for wholesale restructuring of state and collective farms. Instead, the government continues to reduce the pressure on existing farms to restructure.

Last summer the government announced that all 60 billion rubles in long-term debt of state and collective farms would be written off. And the Russian Republic is writing off an additional 23 billion rubles in short-term debt.

The socio-political environment for privatization remains unfavorable in the Russian Republic, the Ukraine, and Byelorussia, despite the popular western view that these republics are better prepared for radical reform. Despite 2 years of Gorbachev's

Subsidies to the Soviet Agro-Industrial Complex Surge



favorable talk, there are barely 1,000 private farms in the three republics, representing an infinitesimal share (0.006 percent) of agricultural land.

According to recent opinion surveys, farm workers express little interest in establishing private farms. Further, the Russian Republic's agricultural program, announced in December, gives a very small role to markets.

Structural Barriers Are Daunting

Even if the conservatives can be won over or overcome, the non-competitive structure of the existing economy will obstruct reform. Further, reducing administrative control will have little impact on farm performance, as long as marketing and input supplies remain monopolized. State and collective farms continue to depend on the state supply network to provide fertilizer, machinery, seeds, and other inputs and services. Similarly, the state procurement network remains far and away the predominant alternative for marketing.

This situation is not likely to improve soon. Current government policy specifically singles out commodities such as meat, sugar, bread, and vegetable oil for continued state marketing. At least through 1992, fully 60 to 70 percent of farm sales will continue to be marketed through the state-controlled system.

Production of farm machinery and supplies is dominated by monopolistic state-owned producers geared to the needs of large farms that are run by the state. Even so, input suppliers are notoriously unresponsive to client needs and have little incentive to change.

Allowing foreign competition also is not a likely solution given the USSR's current trade deficit and inconvertible ruble. Similarly, foreign direct investment in restructuring agricultural input industries remains unattractive because of currency restrictions, political instability, and bureaucratic obstacles.

Given the barriers to efficiency gains on the supply side, budget pressures to take strong action on the demand side by boosting consumer prices are reaching the breaking point. Without retail price increases, claims the Ministry of Finance, the higher farm procurement price increases introduced last fall would raise 1991 net payments from the state budget by 65 billion rubles, and nearly double the current government budget deficit. While the recently proposed retail price reform also would lift income subsidies, some budget savings would be realized.

Special Articles

State To Remain Source of Credit

A particularly constraining part of the economy is the financial sector. The roughly 60 billion rubles in long-term agricultural debt being written off carries a nominal interest rate of 0.75 percent. Short-term rates to agriculture have ranged as high as 2 percent.

The interest rates were established to cover operating costs of state banks, not their cost of funds. In such an environment, there is excess demand for credit. So capital has been allocated by decree rather than by the market.

The commercialization of the financial sector is not being designed to ensure sufficient funds for restructuring and privatization or to eliminate the excess demand for credit. Despite a nominal shift of existing state sectoral banks to a commercial basis, the government will remain the predominant source of investment capital.

The Agro-Industrial Bank, formerly the sole provider of credit to agriculture, has been transformed into a joint-stock venture. However, 60 percent of its capital comes from the Ministry of Finance. And the bank's current 217-billion-ruble loan portfolio exceeds its statutory lending authority by 36 percent. The lending authority is based on fixed authorized capital of 8 billion rubles and the standard that capital should equal 5 percent of loans.

Because much of the current portfolio is in default and will be written off (by Soviet accounting this will not affect bank capital), some additional lending will be allowed. But state and collective farms are first in line for the new credit. Despite some claims to the contrary, it appears that the Agro-Industrial Bank will have few resources to finance privatization or restructuring.

Commercialization of banking also is unlikely to bring credit markets into balance. Starting in 1991, interest rates rose to as much as 11 percent for farm loans, well short of current inflation of 15-20 percent a year. Banking officials dismiss the suggestion that higher rates, positive after accounting for inflation, will be necessary. The officials say that high interest rates are unaffordable and inflationary.

Contraction Dims Reform Prospects

Agriculture is being affected in a broader sense by the sharpening economic contraction and accelerating inflation. Soviet output has shrunk throughout 1990 and into 1991. Preliminary data show a 2-percent decline in GNP for 1990, with a 4-percent drop in the last quarter.

These statistics are not fully corrected for inflation. Some westem analysts believe that Soviet GNP growth in 1989 was actu-



% change from a year earlier

50

40

20

10

ally zero, and that the decline for all of 1990 was about 5 percent.

Price index for farm markets.

Although economic activity stagnated and then declined, the money supply has been increasing. While no direct data are available on the Soviet money supply, nominal (money) income increased nearly 20 percent last year.

Though the state continues to set most retail prices, consumer prices at farmers' markets are largely free to respond to supply and demand. These prices increased 50 percent from December 1989 to December 1990. This inflation rate compares with the official estimate for 1990 of 5-7 percent.

In January, the government moved to cut the money supply by repudiating 50- and 100-ruble notes. The official reason for the action was to control black marketeers who had profited from buying goods from state stores at subsidized prices and then reselling them at market prices.

Citizens were given less than a week to exchange up to 1 month's salary in the larger notes for smaller bills. The reform may well serve to further crode confidence in the ruble. Moreover, such currency reforms alone cannot stop inflation. Because the program does not significantly cut the large government subsidies, the government's need for cash will continue to grow rapidly.

As the number of rubles in circulation continues to grow excessively, farms and enterprises are increasingly reluctant to sell commodities for rubles at low, state-set prices. This has sharply dampened inter-republic trade. Republics and regions have begun to hoard agricultural and other commodities for

Special Articles

their own use or for barter. This has been a major factor behind food shortages in regions such as Moscow, Leningrad, and the Urals that either do not produce their own food or do not produce enough.

Freeing up prices would allow buyers and sellers to reach mutually agreeable terms in rubles, boosting trade flows throughout the system. But chances for market-determined prices are anything but bright.

Many of the resigning government economists complained about the unrestrained populism of government leaders and policymakers, who are reluctant to support uncompensated retail price increases for food, or price liberalization in general. Instead, greater spending on social programs has been promised, with increases possible in the budget deficit and in inflation. [Ed Cook (202) 219-0621 and Robert Collender (202) 219-0892]

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Statistical Indicators

Summary Data

Table 1.—Key Statistical Indicators of the Food & Fiber Sector

		1989		1990			-	1991	
	H	Annual	HI	IV	Annual	IF	ILE	III F	Annual F
Prices received by farmers (1977=100) Livestock & products Crops	145 159 130	147 160 134	150 173 126	145 187 122	150 171 128	144 164 123	142 164 120	143 165 120	Ξ
Prices paid by farmers. (1977=100) Production Items Commodities & services, interest, taxes, & wages	168 179	165 178	170 184	174 187	171 184	173 187	=	Ξ	=
Cash receipts (\$ bil.) 1/ Livestock (\$ bil.) Crops (\$ bil.)	1 64 84 80	159 84 75	176 90 86	177 96 75	168 90 78	164 88 75	175 88 87	175 91 84	170-175 89-93 78-82
Market basket (1982–84≖100) Retail cost Farm value Spread Farm value/retail cost (%)	125 107 135 30	125 107 134 30	134 114 145 30	135 110 149 28	134 114 144 30	=	5 <u> </u>	=	Ξ
Retail prices (1982~84=100) Food At home Away from home	127 126 130	125 124 127	133 132 134	134 134 135	132 132 133	135 135 137	Ξ	Ξ	135-139 135-137 138-141
Agricultural exports (\$ 5il.) 2/ Agricultural imports (\$ 5il.) 2/	8.8 5.1	39.7 21.5	8.4 5.3	9.9 5.4	40.2 22.5	11.3 5.8	8.8 5.5	8.4 5.3	38.5 22.0
Commercial production Red meat (mil. lb.) Poultry (mil. lb.) Egga (mil. doz.) Milk (bll. lb.)	9,875 5,770 1,392 35.1	39,418 22,039 5,598 144,3	9,618 5,982 1,413 36.7	9,847 6,157 1,444 36.3	38,588 23,655 5,659 148,6	9.589 5.915 1.415 37.8	9,659 6,265 1,430 39,2	9,935 6,315 1,425 38.9	39,252 24,820 5,715 150.3
Consumption, per capita Red meat and poultry (lb.)	55.3	220.6	55.3	57.7	220.6	54.5	55.9	57.1	226.5
Corn beginning stocks (mll. bu.) 3/ Corn use (mll. bu.) 3/	2,843.2 1,499.0	4,259.1 7,260.2	2.843 2 1,498.9	1,344.5	7,082.1 8,115.0	=	Ξ	Ξ	8.940.0 8.045
Prices 4/ Choice steers—Omaha (\$/owt) Barrowa & gifts—7 mkts. (\$/owt) Broilers—12—oity (cts./b.) Eggs—NY gr. A large (cts./doz.) Milk—all at plant (\$/owt)	70.09 46.07 59.7 69.2 13.27	72.52 44.03 59.0 81.9 13.67	75.48 57.67 57.2 77.8 14.20	79.44 51.67 48.8 88.5 12.63	77.40 54.45 54.8 82.2 13.77	76-80 50-54 50-54 82-86 11.20- 12.20	76-82 51-57 52-58 69-75 10.50- 11.10	74-80 53-59 53-69 71-77 10.85- 11.85	75-81 50-56 51-57 73-79 10.95- 11.95
WheatKC HRW ordinary (\$/bu.) Corn—Chicago (\$/bu.) Soybears—Chicago (\$/bu.) Cotton—Avg. spot mkt. (cts./lb.)	4.34 2.36 5.70 67.1	4.36 2.55 6.70 63.7	2.94 2.53 6.10 75.6	2.70 2.30 5.88 69.9	=	Ē	Ē	=	=
	1983	1964	1985	1986	1987	1988	1989	1990	1991 F
Gross cash income (\$ bil.) Gross cash expenses (\$ bil.)	150.6 111.0	155.5 119.0	1 57 .2 109.3	152.0 105.2	164.3 108.2	170.4 112.3	177.5 122.8	184 125	185-190 127-133
let cash income (\$ bil.) let farm income (\$ bil.)	39.5 15.3	36.6 26.3	47.9 31.0	46.7 31.0	56.1 41.3	58.1 41.8	54.6 46.7	59 49	55-80 44-49
Farm real estate values 5/ Nominal (\$ per acre) Real (1977 \$)	788 472	801 459	713 395	640 346	509 317	632 322	667 325	693	714-728 315-321

1/ Quarterly data seasonally adjusted at annual rates. 2/ Annual data based on Oct.-Sept. fiscal years ending with year indicated. 3/ Dec.-Feb. first quarter; Mar.-May second quarter; June-Aug. third quarter; Sept.-Nov. fourth quarter; Sept.-Aug. annual. Use includes exporte & domestic disappearance. 4/ Simple averages. 5/ 1990-91 values as of January 1, 1995-89 values as of February 1, 1982-85 values as of April 1, F = forecast. — = not available.

U.S. and Foreign Economic Data

Table 2 -II S	Gross National	Product &	Palated Data
TUDIE Z. Tu 3.	GIOSS RUIDINI	PILKULLI K	Kelalea Dala

		Annual		1989		1	1990	
	1988	1989	1990 P	IV	-	- 11	111	IV
			\$ billion (qua	rterly data sea	sonally adjust	ed at annual i	atee)	
ross national product	4,873.7	5,200.8	5,463.0	5,289.3	5,375.4	5,443.3	5,514.6	5,518.
ersonal consumption			0.050.1	2 510 5	2 504 1	0.000.7	0.000.4	2 720
expenditures Durable goods	3,238,2 457.5	3,450.1 474.6	3,658,1 481,6	3,518.5 471.2	3,588.1 492.1	3.622.7 478.4	3,893.4 482.3	3,728. 473.
Nondurable goods	1.060.0	1,130.0	1.194.2	1,148.8	1,174.7	1,179.0	1.205.0	1,218
Clothing & shoes	191,1	204.6	213 3	208.7	212.9	212.6	215.8	212
Food & beverages	562.6	595.3	624.9	602.2	616.4	623 3	629.8	629
Services	1,720.7	1,845.5	1,982.3	1,898.5	1,921.3	1.965 3	2,006.2	2,036
ross private domestic								=
veetment	747.1	771.2	745.0	762.7	747.2	759.0	759.7	714
Exed investment	720.8	742.9	747.2	737.7	758.9	745.6	750.7	733 19
Change in business inventories et exports of goods & services	2 0 .2 -74.1	28.3	-2.2 -38.0	25.0 -35.3	-11.8 -30.0	13.4 -24.9	9.0 -41.3	-55
overnment purchases of	-74.1	-46.1	-36.0	-30 3	230.0	-24.0		-00
oods & services	962.5	1,025.6	1,098.0	1,043.3	1,070.1	1,088.4	1,102.8	1,132
ose nethonal product	4.010.0	4,117.7	4 166 P	4,133.2	4,150.6	4 155 1	4,170.0	4,147.
ost national product ersonal consumption	4,010.9	3,117.7	4,155.8	7,133.2	7,100.0	4,155.1	4,170.0	7,177
xpenditures	2,606.5	2.656.8	2,682.2	2,669.9	2,677.3	2,678.8	2,696.8	2,675
Durable goods	418.2	428.0	428.4	423 1	437.6	420.8	429.5	419
Nondurable goods	909.4	919.9	911.5	923 0	915.6	911.2	916.4	902
Ciothing & shoes	165.0	172.7	172.7	175.1	174.2	171.3	174.4	171
Food & beverages	462.2	462 9	457.5	460.3	457.4	459.3	459.4	454
Services	1,278.9	1.309.0	1,342.2	1,323.8	1,324.2	1,340 8	1,350.8	1,353
ose private domestic investment	705.7	716.9	690.3	709,1	700.7	700.7	897.0	662
Fixed investment	682.1	693.1	891.4	690.2	702.9	891.2	892.3	679
hange in business inventories	23.6	23.8	-1.1	18.9	-2.2	9.5	4.7	-18
et exports of goods & services	-75.9	-64.1	-37.5	-47.9	-35.4	-44.6	-46.5	-23
overnment purchases of cods & services	780.5	798.1	820.8	802.2	807.9	820.2	822.7	832
I and the second					4.0		0.7	
P implicit price deflator (% change) posable personal income (\$ bil.)	3.3 3.479.2	4.1	4.1	3 8	4.8 3.887.7	4.7 3,925.7	3.7 3,969.1	4,000
nosable per income (1982 \$ bill)	2,800.5	3.725.5 2,869.0	3.945.8 2.893.3	3,799.6 2,883.2	2,900.9	2,902.8	2,898.0	2,871
posable per, income (1982 \$ bil.) r capita disposable per, income (\$) r capita dis, per, income (1982 \$) S. population, total, Incl. military	14,123	14.973	15.695	15,210	15,527	15,639	15,765	15.84
capita dis. per, income (1982 \$)	11,368	11,531	11,508	11,541	11,588	11,564	11,511	11,37
S. population, total, Incl. military	,							
road (mil.)	246.4	248.8	251.4	249.8	250.4	251.0	251.8	252
illan population (mil.)	244.1	246.6	249.2	247.6	248.2	248.8	249.6	250
		Annual		1989		1	990	
	1986	1989	1990 P	Dec	Sept	Oct	Nov	De
			N	lonthly data e	eaonally adju	sted		
lustrial production (1987=100) ading economic indicators (1982=100)	105.4 142.7	108.1 144.9	109.1 144.0	108. 0 145.3	110.6 143.3	109.8 141.6	107.8 140.0	107. 140
rillan employment (mil. persons)	115.0	117.3	117.9	118.0	117.9	117.7	117.4	117
filan unemployment rate (%)	5.4	5.2	5.4	5.3	5.7	5.7	5.9	é
reonal income (\$ bil. annual rate)	4,070.8	4,384.3	4,645.6	4,496.7	4,697.8	4,898.1	4,713.7	4,747
ney stock-M2 (daily avg.) (\$ bil.) 1/	3,072.4	3,221.6	3,323.1	3,221.6	3,317.1	3,318.8	3,317.6	3,323
ree-month Treasury bill rate (%)	6.69	8.12	7.51	7.64	7.38	7.19	7.07	6.8
A corporate bond yield (Moody's) (%) using starts (1,000) 2/	9.71 1,488	9.26 1,376	9.32 1,193	8.86 1,273	9.56 1,108	9,53 1,026	9.30 1,127	9.0 98
to sales at retail, total (mil.)	10.6	9,9	9.5	8.9	10.1	9.3	8.6	8
siness inventory/saiss ratio	1.49	1.50		1.51	1.48	1.48	1.50	
es of all retail stores (\$ bil.)	137.5	144.5	150.0	145.8	151.6	151.8 F	151.6	151
ondurable goods stores (\$ bil.)	85.2	90.7	96.0	93.1	97.8	97.7 F		98
ood stores (\$ bil.)	27.2	29.1	30.0	29.9	31.2	30.9 F	31.0	31
ating & drinking places (\$ bil.)	13.8	14.5	15.1	14.5	15.2	15.2 F		15
pparel & accessory stores (\$ bil.)	7.1	7.6	7.9	7.7	7,9	7.8 F	7.8	7
	4000	Annual	4000	ton		990 Mari	Dag	199
	1988	1989	1990	Jan	Oct	Nov	Dec	Ja
reign exchange value of the dollar								
apanese yen per U.S. dollar erman marke per U.S. dollar	128.2	137.9	145.0	145.0	129.6	128.9	133.8 1.500	133.
	1.757	1.874	1.615	1.892	1.520	1.480		1.51

^{1/} Annual data ** of December of the year listed. 2/ Private, including farm, P = preliminary. -- = not available.

Table 3.—Foreign Economic Growth, inflation, & Export Earnings_

	1982	1983	1984	1985	1988	1987	1988	1980	1990	1991	1992	Average -1980-89
***			=		Annu	ıal per ce ni	change					
World, less U.S.												
Real GDP	1,1	2.0	4.3	3.8	2.7	3.6	4.3	3.4	1.8	1,8	3.4	3.0
Consumer prices	13.1	11.8	12.5	13.0	9.1	11.4	17.7	32.1	79.7	17.4	10.5	15.1
Merch, exports	-7.9	-1.5	5.4	1.8	10.9	18.9	12.7	7.4	12.2	14.4	7.1	8.8
Developed less U.S.	4.0											
Real GDP	1.0	2.2	3.9	3.5	2.7	3.6	4.4	4.0	3.7	2.4	3 3	2.9
Consumer prices	8.2	5.8	4.9	4.5	2.7	2.6	2.9	4.3	4.9	6.3	4.8	5.7
Merch, exporte	-4.4	-0 .5	6.3	4.6	19.5	17.7	12.3	6.0	14.5	13.9	8.3	7.5
Developing	1.0		4.5	4.5								
Real GNP		1.3 32.7		39.8	2.8	4.1	4.2	3.4	1.5	3.7	5.0	3.4
Consumer prices	25.3		38.2		27.0	35.5	57.0	78.0	276.B	47.3	22 5	39.0
Merch, exporte	-13.3	-3.3	3.8	-3.2	-6.1	22.0	13.6	10.8	7.6	18.3	5.7	4.9
Asia, incl. China	6.7	8.0	7.6	7.3	5.8	6.9					414	
Real GDP	5.7						8.8	5.3	5.2	5.6	6.1	6.7
Consumer Prices	6.4 -0.5	6.6 4.6	6.1	-0.9	5.6	7.4	11.8	10.1	7.2	9.6	9.3	8.2
Merch, exports	-0.5	4.0	14.6	-0.9	8.8	30.1	23.1	11.5	10.4	14.8	10.2	12.6
Latin America Real GDP	-1.5	-2.7	3.3		3.8	2.4						
	67.1	108.7		3.3		3.4	0.7	1.2	-1.0	2.1	3.8	1.7
Consumer prices	-10.6	-0.2	133.5	145.1 -5.5	82.1 -17.9	116.1 13.7	218.0	345.1	927.0	134.0	50.3	133.1
Merch, exporte	-10.0	-0.2	6.3	-0.5	-17.9	13.7	13.9	12.3	6.4	12.4	3.3	4.6
Real GOP	-1.7	-0.6	-0.6	3.4	-0.9	0.6	2.3	2.6		3.0	3.6	0.4
Consumer Prices	13.1	18.0	20.6	13.2	12.5	13.1	19.2	24.9	2.7 18.3	16.4		
Merch, exporte	-27.0	15.2	-1.0	-2.5	-17.4	14.7	-4.7	15.2		15.1	15.5 -5.7	17.2 1.2
Middle East	-27.W	19,2	-1.0	-2.0	-17.4	14.7	-4.7	10.2	27.5	10.1	-5./	1.4
Real GDP	29	-1.6	2.9	2.3	2.0	1.5	1.4	3.9	-4.0	0.5	12.5	2.1
Consumer prices	12.9	11.9	14.3	17.1	14.9	19.2	19.4	14.5	17.4	17.8	16.1.	15.B
Merch, exports	-21.1	-22.2	-10.5	-6.7	-19.6	24.2	1.6	24.1	15.4	35.1	2.6	-1.2
Eastern Europe, Incl.	USSR	44.2	, 0.0	-0.7		27.2	1.0	44.1	10.4	33.1	2.0	-1.2
Real GOP	2.0	3.0	1.8	1.8	3.0	1.4	4.2	1.0	-4.7	-4.5	-2.3	2.1
Consumer prices	12.8	5.4	4.2	6.0	7.4	9.1	15.7	68.1	77.5	19.4	18.2	15.0
March. exports	1.3	3.7	1.8	0.2	8.2	5.1	3.0	0.1	-1.5	9.1	2.1	4.8

F = forecast.

Information contact: Alberto Jerardo, (202) 219-0708.

Farm Prices

Table 4.—Indexes of Prices Received & Paid by Farmers, U.S. Average_

		Annual				1	990			199
	1988	1989	1990	Jan	Aug	Sept	Oct	Nov	Dec R	Jan
				1	977=100					
rices received							4.5		440	
All farm products	138	147	150	154	150	148	148	148	143	14
All crops	126	134	128	135	125	123	120	124	121	12
Food grains	138	156	123	151	108	103	101	100	100 115	9
Feed grains & hay	120	128	123	120	128	120	114	113	110	11
Feed grains	117	123	118	115	122	115	108	108	110	11
Cotton	95	88	107	99	107	108	112	113	109	10
Tobacco	132	145	148	148	145	152	151	152	152	15
Oll-bearing crops	108	102	93	69	84	95	95	96	96	
Fruit, all	185	192	191	170	182	198	181	205	194	20
Freeh market 1/	197	203	202	175	196	214	194	221	204	21
Commercial vegetables	140	151	154	246	138	141	156	162	148	14
Fresh market	135	144	144	241	128	138	150	161	135	34
Potatoes & dry beans	124	186	191	188	201	131	118	132	138	13
Livestock & Products	150	180	171	172	174	173	171	168	184	10
Meat animals	168	174	193	185	197	193	196	190	190	11
Only products	126	140	142	162	147	146	136	132	123	1.3
Poultry & eggs	118	137	131	139	129	135	129	127	129	13
ices paid										
Commodities & eervices,										
interest, taxes, & wage rates	170	178	184	181	-	-	187		_	18
Production Items	167	167	171	169	_		174	-		17
Feed	126	135	128	128	_	_	124		_	12
Feeder livestock	192	194	213	205	_	_	219	_		21
Seed	150	165	165	170	_	_	183	-	_	14
Fortilizer	130	137	130	131	_	_	132		_	13
Agricultural chemicals	126	132	139	133	_	_	141	_		1
Fuels & energy	186	181	204	201	_	_	239		_	2
Ferm & motor supplies	148	156	154	153	_	-	156	_	*****	1.0
Autou & trucks	215	223	231	225	_	_	233	-		2
Tractors & self-propulled machinery	181	193	202	199	_	_	208	_	_	2
Other mechinery	197	208	216	210		_	220	_		2
Building & fencing	138	141	144	143	_	_	144	_		14
Form services & cash tent	148		188	166		_	168		_	17
nt, payable per ucre on tarm real estate debt	182	158 177	174	174		_	174	_	_	17
exes payable per acre on farm real setate	147	152	157	157	_	_	157		_	1
Yage rates (seasonally adjusted)	172	186	192	193		_	186		_	- 11
roduction itams, interest, taxes, & wage rates	100	167	172	170	=	_	174	=	-	17
atio, prices received to prices paid (%) 2/	82	83	82	85	82	80	78	78	78	7
ices received (1910-14=100)	832	673	884	704	886	678	857	664	654	65
ices paid, etc. (parity index) (1910-14-100)	1,187	1.221	1,265	1,247	_		1,269	=-		1.2
arity retio (1819-14a 100) (%)2/	54	55	54	58	54	54	52	52	51	

1/ Fresh market for nonclinus: fresh market & processing for citrus. 2/ Ratio of index of prices received for all farm products to index of prices paid for commodities & services, interest, taxes, & wage rates. Ratio uses the most recent prices paid index. Prices paid data are quarterly & will be published in January. April, July, & October, R = revised. P ≈ preliminary. — = not available.

Table 5.—Prices Received by Farmers, U.S. Average

		Annual	1/				1990			1991
	1988	1989	1990 P	jan	Aug	Sept	Oct	Nov R	Dec	Jan P
CROPS	3.72	3.72	2 55-2.65	3.71	2.58	2.48	2.42	2.39	2.40	2.32
All wheat (\$/bu.) Rice, rough (\$/cwt)	6.83			7.44	6.74	6.25	8.02	6.30	6.08	6.33
Corn (\$/bu.)	2.54	2.38	2.20-2.40	2.31	2.51	2.32	2.19	2.17	2.22	2.22
Sorghum (\$/cwt)	4.05	-3.79	3.70-4.24	3.58	4.14	3.95	3.55	3.57	3.67	3.82
All hey, baled (\$/ton)	85.20	86.00	86.00	84.90	84.40	85.70	86.00	81.50	80.70	82.00
Soybeans (\$/bu.)	7.42	5.70	5.40-6.00	5.65	6.00	5.99	5 87	5.78	5.72	5.48
Cotton, upland (cts./lb.) 2/	55.6	63.2	68.10	60.2	64.7	65.1	67.5	68.2	65.9	63.9
Potatoes (\$/ewt)	6.02	7.36	6.15	7.36	8.36	5.47	4.69	5.28	5.54	5.72
Lenuce (\$/cwt) 3/	14.70	12.80	11.60	9 42	14.50	18.40	19.70	16.50	10.70	11.50
Tomatoes fresh (\$/cwt) 3/	26.90	32.90	26.40	116.00	27.30	24.00	31.30	30.40	29.80	21.20 19.70
Onions (\$/cwt)	9.75	11.80	10.30	11.00	9.77	8.78	10.50	10.70 19.10	14.40 18.80	17.70
Dry edible beans (\$/cwt)	29.90	28.50	18.80	30.20	26.70	18.30	17.80	19.10	10.80	17.70
Apples for fresh use (cts./lb.)	17.4	13.4		12.2	20.4	24.5	19.4	20.2	20.8	20.1
Pears for fresh use (\$/ton)	358.00	336.00	392.00	303 00	288.00	389.00	373.00 4.48	390.00	361.00 6.18	356.00
Oranges, ell uses (\$/box) 4/	7,18	6.89	5 99 6.21	4.95 5.04	5.07 6.44	5.31 7.22	6.51	5.63	5.63	5.66
Grapefruit, alt usea (\$/box) 4/	5.43	4,49	0.21	5.04	0.44	7.66	0.01	3.03	2.03	0.00
LIVESTOCK	20.00		74.00	20.74	76.10	75.00	75.50	75.30	76.10	76.00
Beef cattle (\$/cwt) Calves (\$/cwt)	66.80 89.90	91.80	74.80 96.70	73.70 91.00	99.20	95.50	92.80	93.90	96.80	96.30
Hogs (\$/cwt)	42 50	43.20	54.00	47.30	55.90	54.30	56.80	50 20	47.80	49.30
Lamba (\$/cwt)	89.50	67.30	56.00	56.40	54.00	52.80	52.00	50.10	48.80	48.60
All milk, sold to plants (\$/cwt)	12.26	13.56	13.75	15.70	14.30	14.20	13.20	12.80	11.90	11.70
Milk, manuf, grade (\$/cwt)	11 15	12.38	12.30	14.20	12.90	12.50	11.80	10.50	10.50	10.40
Broilers (cts./lb.)	34.0	36.0	32.9	30.7	33.2	35 2	29.0	28.2	28.8	30.9
Eggs (cte./doz.) 5/	53 .3	70.0	70.0	83 8	65.8	68.5	73.5	72.9	76.5	79.1
Turkeys (cts./lb.)	37.0	40.0	38.3	35.9	39.9	40.6	42.2	43.0	35.6	33.9
Wool (cts./lb.) 6/	138.0	124.0	76.8	65.8	74.4	71.9	83.5	58.0	48.2	38.2

^{1/} Season average price by crop year for crops. Calendar year average of monthly prices for livestock. 2/ Weighted everage of first 7 months of the essen – not a projection for 1990/91, 3/ Excludes Hawaii. 4/ Equivalent on–tree returns, 5/ Average of all eggs sold by producers including hatching eggs & eggs sold at retail. 8/ Average local market price, excluding incentive payments. R = revised. P = preliminary. — not available.

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Producer & Consumer Prices

Table 6.—Consumer Price Index for All Urban Consumers, U.S. Average (Not Seasonally Adjusted)

	Annual	Annual 1989				1	990			
	1990	Dec	May	June	July	Aug	Sept	Oct	Nov	Dec
					1982-8	4±100				
Consumer Price Index, all items	130.7	120.5	129.2	129.9	130.4	131. 6	132.7	133.5	133.8	133.8
Consumer Price Index, less food	130.3	120.4	128.7	129.4	130.0	131.3	132.6	133.5	133.7	133.7
All food	132.4	120.7	131.3	132.0	132.7	132.9	133.2	133.6	134.0	134.2
Food away from home	133.4	124.1	133.0	133.4	133.9	134.3	134.6	135.0	135.4	135.7
Food at home	132.3	119.1	130.9	131.7	132.5	132.7	132.9	133.4	133.8	133.8
Meats 1/	128.5	112.7	126.6	129.6	130.3	130.5	131.0	131.7	133.1	133.6
Beef & vest	128.8	114.6	128.5	129.0	129.2	128.5	129.5	130.1	131.9	133.0
Pork	129.8	109.6	125.5	132.9	134.8	136.5	135.4	136.4	137.1	136.8
Poultry Fish Eggs Dairy products 2/ Fate & oils 3/ Fresh truit	132.5	127.1	132.3	134.0	135.3	133.6	134.6	133.7	130.5	129 7
	145.7	138.9	143.8	143.7	143.3	145.2	147.4	147.0	147.0	148.5
	124.1	99.6	115.0	112.2	109.1	119.6	120.6	125.5	128.5	128.7
	126.5	111.4	124.7	124.9	125.7	127.3	127.6	128.6	128.1	126.7
	126.3	118.5	125.0	125.5	126.6	127.4	126.2	128.1	128.8	131.0
	170.9	143.2	174.9	173.2	176.6	169.5	168.7	163.2	164.8	171.2
Processed fruit Freet vegetables Potatoes Processed vegetables	138.9	124.4	139.2	140.1	140.1	140.0	139.9	139.5	137.0	134.6
	151.1	133.0	139.8	140.0	143.8	139.8	137.3	142.2	149.5	144.0
	162.6	128.5	187.4	185.8	179.7	189.8	152.0	139.9	134.5	133.9
	127.5	118.9	127.8	127.6	128.2	128.8	128.8	127.9	127.5	128.1
Cereats & bakery products	140.0	126.6	139.3	140.1	140.5	141.4	141.6	141.9	141.7	142.4
Sugar & sweets	124.7	116.7	124.4	124.5	124.9	125.6	125.8	126.6	126.1	126.4
Beverages, nonalcoholic	113.5	107.8	112.7	113.3	114.0	114.3	114.2	115.2	114.5	113.1
Apparel Apparel, commodities less footwear Footwesr Tobacco & smoking products Beverages, alcoholic	122.8	116.8	124.5	121.8	118.8	120.5	125.8	127.4	126.4	123.8
	117.4	113.5	118.5	117.3	116.1	116.3	118.6	120.5	119.6	118.4
	181.5	149.9	176.7	180.9	185.7	185.8	185.8	185.9	187-2	190.5
	129.3	119.9	128.9	129.3	129.9	130.2	130.8	131.0	130.9	130.9

^{1/} Beef, vest, lamb, pork, & processed meat. 2/ Includes butter. 3/ Excludes butter.

Table 7.—Producer Price Indexes, U.S. Average (Not Seasonally Adjusted)

									_	
		Annual		1989			1	1990		
	1987	1988	1989	Dec	July R	Aug R	Sept	Oct	Nov	Dec
					1982 = 10	0				
Finished goods 1/	105.4	108.0	113.6	115.4	118.2	119.3	120.3	122.3	122.9	121.9
Consumer foods	109.5	112.6	118.7	121.1	124.9	124.9	124.1	124.5	125.1	124.1
Fresh fruit	112.0	113.5	113.2	109.8	135.7	120.7	115.3	117.3	121.1	119.5
Fresh & dried vegetables Oried fruit	103.7 95.0	105.5 99.1	11 6.7 103.0	105.2	103.9	98.0	94.3	101.5	117.0	95.7
Canned fruit & juice	115.3	120.2	122.7	10 6 .3 123.4	105.0 127.8	105.0 128.1	104.9 127.7	110.0 127.8	110.4	110.5
Frozen fruit & juice	113.3	129.8	123.0	118.1	148.5	148.4	139.5	137.0	125.1 11 9 .1	125.1 11 6 .3
Fresh veg. excl. potatoes	99.0	100.4	103.9	88.4	93.3	79.0	79.4	96.2	117.7	87.2
Canned veg. & julces Frozen vegetables	103.5 107.3	108.3	118.6	118.0	118.5	115.2	118.5	114.4	114.5	114.0
Potatoes	120.1	108. 6 113. 9	115.5 153.6	117.1 160.2	118.1 134.4	118.3 181.9	118.3	131.0	118.9	119.0
Eggs	87.6	88.6	119.8	141.3	91.6	114.4	155.4 112. 6	121. 6 121. 5	129.4 125.0	135.5 124.5
Bakery products	118.4	128.4	135.4	138.4	140.7	141.0	141.6	142.4	142.4	142.6
Meate Beef & veal	100.4	99.9	104.8	108.4	119.8	119.8	116.7	119.5	119.6	119.6
Pork	95.5 104.9	101.4 95.0	108.9 97.7	110.7 105.1	113.3	116.2	114.1	117.4	119.7	121.2
Processed poultry	103.4	111.6	120.4	108.5	130.7 120.6	128.2 114.4	119.7 116.9	124.0 110.0	120.7 108.6	118. 6 106. 6
Fleh	140.0	148.7	142.9	138.2	136.6	138.9	144.2	143.6	157.7	160.2
Dairy products	101.6	102.2	110.6	121.4	119.5	120.2	119.0	117.4	114.0	112.2
Processed fruits & vegetables - Shortening & cooking oil	108.6 103.9	113.6 118.8	119.9 118.6	120.4 11 6. 2	128.1 127.8	125.8 129.4	125.2 127.0	124.2 122.7	120.7 119.2	120.2 120.4
Consumer finished goods less foods'	100.7	103.1	108.9	110.4	113.2	115.1	117.7	120.6	121.3	119.8
Beverages, alcoholic	110.3	111.8	115.2	114.6	117.7	118.8	117.3	117.4	117.4	117.0
Soft drinks Apparel	111.8	114.3	177.7	119.8	121.2	121.6	121.7	122.4	122.6	123.0
Footwear	109.3	111. 7 115.1	114.5 120.8	115.7 123.1	117.7 125.6	118.0 125.8	117.6 126.3	118.0	117.9	117.3
Tobacco products	154.6	171.9	194.8	209.6	224.3	224.3	225.0	126.1 224.8	125.8 230.4	126.1 236.4
Intermediate materials 2/	101.5	107.1	112.0	111.9	113.1	114.4	116.3	117.8	117.8	116.7
Materials for food manufacturing	100.8	106.0	112.7	115.5	120.8	120.4	118.8	117.2	116.0	116.4
Flour	92.9	105.7	114.6	113.6	103.1	98.5	94.5	93.6	92.0	92.6
Refined sugar 3/ Crude vegetable oils	106.4 84.2	108.9 116.6	118.2	122.0	123.2	122.6	122.7	123.1	123.0	122.9
Crude materials 4/	93.7	96.0	103.1	97.9	124.4	128.4	124.5	115.2	105.0	111.2
			103.1	104.2	101.4	110.2	115.1	124.6	115.8	110.5
Frodstuffs & feedstuffs Fruits & vegetables 5/	96.2 108.8	108.1 108.5	111.2 114.5	112.6 106.7	115.4	113.2	110.8	110.0	108.6	108.5
Graine	71.1	97.9	106.4	101.0	117.3 103.1	107.4 92.1	103.0 88 .3	107.9 85.8	118.2 85.1	105.7 88.0
Livestock	102.0	103.3	106.1	110.6	114.7	117.8	113.3	116.5	113.9	114.3
Poultry, live	101.2	121.5	128.8	104.3	134.7	122.1	128.9	110.2	108.3	104.2
Fibers, plant & animal	106.4	98.4	107.8	108.3	129.4	125.1	116.6	116.4	115.0	118.9
Fluid milk Ollegede	91.8	89.4	8.89	116.2	105.3	105.5	106.0	98.4	91.7	87.5
Tobacco, ieaf	99.2 85.7	134.0 87.2	123.8 93.8	106.7	114.8	114.8	116.5	119.8	111.0	115.8
Sugar, raw cane	110.2	111.9	115.5	93.7 117.5	93.7 119.6	93.1 119.6	100.9 119.7	98.3 119.8	98.9 119.4	98.9 117.2
All commodities	102.8	106.9	112.2	113.0	114.5	116.5	118.3	120.8	120.1	118.6
Industrial commodities.	102.5	106.3	111.6	112.3	113.4	115.9	118.3	121.3	120.6	118.9
All foods 8/	107.8	111.5	117.8	119.9	124.2	124.0	122.9	123.0	123.6	122.6
Farm products &										
processed foods & feeds Farm products	103.7	110.0	115.4	115.6	120.0	119.1	117.9	118.1	117.4	117.0
Processed foods & feeds 8/	95.5 107.9	104. 9 112. 7	110.9 117.8	111.5	113.6	111.4	109.0	109.8	108.3	107.6
Cereal & bakery products	112.5	123.0	131.1	119.3 133.3	123.2 134.3	123.0 134.2	122.4 133.4	122.2 134.2	121.9 134.0	121.7 134.3
Sugar & confectionery	112.6	114.7	120.1	121.0	123.9	123.7	123.9	123.0	125.0	124.9
Beverages	112.5	114.3	118.4	118.4	120.9	120.6	120.8	120.7	120.8	120.7

^{1/} Commodities ready for sale to ultimate consumer. 2/ Commodities requiring further processing to become finished goods. 3/ All types & sizes of refined sugar. 4/ Products entering market for the first time that have not been manufactured at that point. 5/ Fresh & dried. 3/ Includes all raw, Intermediate, & processed foods (excludes soft drinks, alcoholic beverages, & manufactured animal feeds). R = revised.

Farm-Retail Price Spreads

Table 8.—Farm-Retail Price Spreads

		Annual		1989			1	990		
Amelian to a stand of	1988	1989	1990 P	Dec .	July	Aug	Sept	Oct	Nov	De
Aarket basket 1/ Retail cost (1982–84=100)	118.5	124.6	133.5	127.4	133.6	134.0	134.1	134.6	135.2	135.
Farm value (1982-84=100)	100.5	107.1	113.7	110.2	114.3	114.0	111.7	111.1	110.5	107.
Farm-retail epread (1982-84=100)	125.1	134.1	144.2	136.6	144.0	144.7	148.2	147.3	148.5	150.
Farm value-retail oost (%)	30.2	30.1	29.8	30 3	30.0	29.8	29.2	28.9	28.6	27.
eat producte Retail cost (1982–84∈100)	112.2	116.7	128.5	120.0	130.3	130.5	131.0	131.7	133.1	133.
Ferm value (1982-84=100)	99.5	103.3	118.6	106.9	118.9	120.2	114.9	110.0	118.5	114.
Farm-retail epread (1982-84=100)	125.2	130.4	140.6	133.4	142.0	141.1	147.5	144.8	150.1	153.
rarm value-retail cost (%) iify products	44.9	44.8	46.0	45.1	46.2	46.7	44.4	45.7	44.3	43
Petail cost (1982-84=100)	108.4	115.6	126.5	122.9	125.7	127.3	127.6	128.6	129.1	128
arm value (1982-84=100)	90.6	99.1	102.0	113.6	103.8	105.0	105.6	99.2	95.7	90.
arm-retail spread (1982-84=100)	124.7	130.8	149.1	131.4	145.9	147.8	147.9	155.7	157.9	160
Farm value-retail cost (%)	40.1	41.1	38.7	44 4	39.6	39.6	39.7	37.0	35.9	34
Retail cost (1982-84=100)	120.7	132.7	132.5	127 8	135.3	133.6	134.6	133.7	130.5	129
Farm value (1982-84=100)	110.2	117.1	107.6	96.5	118.6	109.3	115.1	99.0	97.2	95
Farm-retail spread (1982–84=100) Farm value-retail cost (%)	132.8 48.9	150.6 47.2	181.1 43.5	163.8 40.4	154.5 46.9	181.6 43.8	1 57.1 45.7	173.7 39.6	168.8 39.9	169
ge ` ´										
Retail cost (1982–84=100)	93.6	118.5	124.1	134.9	109.1	119.6	120.6	125.5	128.5	128 120
Farm value (1982–84=100) Farm–retail spread (1982–84=100)	76.7 123.9	107.5 138.1	108.0 153.2	133.4 137.6	80.1 181.2	100.0 154.7	105.9 147.1	114.3 145.7	113.8 155.0	142
Farm value-retail cost (%)	52.7	58.3	55.9	63.5	47.2	53.7	56.4	58.5	56.9	60
ereal & bakery products			20.0	00.0		00				
Hetail cost (1982-84=100)	122.1	132.4	140.0	136.1	140.5	141.4	141.6	141.9	141.7	142
Farm value (1982–84=100)	92.7	101.7	90.5	101.0	89.8	85.5	81.5	78.7	77.9	78
Farm-retail spread (1982–84=100) Farm value-retail cost (%)	128.2 9.3	136.7 9.4	146.9 7.9	141.0 9.1	147.6 7.8	149.2 7.4	150.0 7.0	150.7 6.8	150.6 6.7	151
esh fruits	0.5		7.0		7.0	7.4	7.0	0.0	0.7	
letail cost (1982-84=100)	145.4	154.7	174.6	158.6	177.2	173.1	171.9	167.2	189.3	176
arm value (1982-84=100)	116.5	108.5	128.2	113.5	124.5	119.7	126.0	131.1	150.4	134
Farm-retail epread (1982-84=100)	158.7 25.3	176.0	195.9	179.4 22.6	201.5 22.2	197.7	193.1	183.9	178.0	195 24
Farm Value-retail coet (%) resh vegetables	20.0	22.2	23.2	22.0	22.2	21.8	23.2	24.8	28.1	24
Retail costs (1982-84=100)	129.3	143.1	151.1	136.5	143.6	139.8	137.3	142.2	149.5	144
Farm value (1982–84=100)	105.8	123.3	132.0	112.6	115. 5	112.7	93.2	106.0	117.8	99
Farm-retail apread (1982-84=100)	141.3	153.2	161.0	148.8	158.3	153.7	160.0	160.6	165.8	166
Farm value-retail cost (%)	27.8	29.3	29.7	28.0	27.3	27.4	23.1	25.3	26.8	23
ocessed fruite & vegetables Retail cost (1982–84=100)	117.6	125.0	132.7	124.9	134.8	135.0	135.0	134.3	132.8	131
Farm value (1982-84=100)	136.6	133.6	148.0	127.7	153.2	148.7	151.1	150.0	147.2	148
Farm-retail epread (1982-84=100)	111.7	122.3	127.9	124.0	129.1	130.7	130.0	129.4	128.3	126
Farm value-retail costs (%)	27.6	25.4	26.5	24.3	27.0	26.2	26.6	26.6	28.4	26
Retail coet (1982-84=100)	113.1	121.2	126.3	121.6	126.6	127.4	128.2	128.1	128.8	131
Farm value (1982-84=100)	103.0	95.6	108.4	92.9	110.9	113.5	110.0	105.4	100.6	103
Farm-retail spread (1982-84=100)	116.8	130.6	133.7	132.2	132.4	132.5	134.9	138.5	139.2	141
Farm value-retail cost (%)	24.5	21.2	22.7	20.5	23.6	24.0	23.1	22.1	.21.0	21
		Annual		1989			1	990		
	1988	1989	1990 P	Dec	July	Aug	Sept	Oct	Nov	D
sef, Choice Retail price 2/ (cts./lb.)	250.3	265.7	281.0	269.4	279.9	280.6	280.6	282.7	291.6	295
Wholesale value 3/ (cts.)	169.4	176.8	190.0	183.8	183.3	187.8	187.3	193.0	198.5	200
Net farm value 4/ (cts.)	148.3	157.6	168.4	164.9	160.5	166.7	100.6	171.1	174.8	174
Farm-retail spread (cte.)	102.0	108.1	112.6	104.5	119.4	113.9	113.8	111.6	118.8	120
Wholesale-retail 5/ (cta.)	80.9	86.9	91.0	85.6	96.6	92.8	93.3	89.7	93.1	96
Farm-wholesale 6/ (cts.) Farm value-retail price (%)	21.1 59	19.2 59	21.6	18.9 61	22.8 57	21.1 50	20.5 59	21.9 61	23.7	28
ork (70)		-	-	01		-	-	01	-	
Retail price 2/ (cts./lb.)	183.4	182 9	212.6	191.2	222.2	224.9	220.8	223.2	222.9	223
Wholesale value 3/ (ctn.)	101.0	99.2	118.3	112.3	127.3	120.5	120.7	124.4	119.7	117
Net farm value 4/ (cts.)	69.4	70.4	87.2	79.5	99.2	90.4	88.0	91.2	79.1	77
trm-retail epread (cts.) Wholesale-retail 5/ (cts.)	114.0	112.5	125.4	111.7	123.0	134.5	132.8	132.0	143.8	145
Farm-wholesale 6/ (cts.)	82.4 31.6	83.7 28.8	94.3 31.1	78.9 32.8	94.9	104.4	100.1	98.0	103.2	105
Ifm value-retail price (%)	38	38	41	42	28.1 45	30.1 40	32.7	33.2	40. 6 35	40

^{1/} Retail costs are based on CPI-U of retail prices for domestically produced farm foods, published monthly by BLS. The farm value is the payment for the quantity of farm equivalent to the retail unit, less allowance for byproduct. Farm values are based on prices at first point of sale & may include marketing charges such as grading & packing for some commodities. The farm-retail spread, the difference between the retail price & the farm value, represents charges for assembling, processing, transporting, distributing. 2/ Weighted average price of retail cuts from pork & choice yield grade 3 beef. Prices from BLS. 3/ Value of wholesale (boxed beef) & wholesale cuts (pork) equivalent to 1 lb. of retail cuts adjusted for transportation costs & byproduct values. 4/ Market value to producer for live animal equivalent to 1 lb. of retail cuts, minus value of byproducts. 5/ Charges for retailing & other marketing services such as wholesaling, and in-city transportation. 6/ Charges for livestock marketing, processing, & transportation.

Note: Choice beef series reflects August 1990 revisions.

Information contacts: Denis Dunham (202) 219-0970, Larry Duewer (202) 219-0712,

Table 9.—Price Indexes of Food Marketing Costs

		Annual			1989			1990	
	1988	1989	1990 P	ļili	IV	31	41	III	ΙΫ́P
					1967=100°				
Labor—hourly earnings									
& benefits	370.1	379.5	393.1	378 €	382.6	388.8	392.0	392.5	392.6
Processing	382.0	390.3	404.9	389.6	392.4	400.7	404.1	404.4	402.9
Wholesaling	394.1	409.1	421.5	410.7	413.0	417.0	419.5	423.2	422.5
Retailing	347.7	355.8	368.8	353.3	359 .3	364.3	367.7	367.0	389.7
Packaging & containers	350.7	364.6	307.0	366.1	385.2	367.1	367.3	366.5	386.8
Peperboard boxes & containers	308.1	323.7	323.9	325.5	326.9	326.7	324.1	322.3	322.2
Metal cans	442.3	443.2	455.0	448.2	448.2	450.9	458.3	456.3	456.3
Paper bage & related Products	372.2	409.2	413.0	409.2	407.7	411.5	408.9	410.2	412.6
Plastic films & bottles	305.7	313.2	307.1	311.3	306.7	308.5	306.9	303.9	303.5
Glase containers	398.9	409.9	427.3	413.5	412.0	422.2	428.0	428.9	429.2
Metal foil	266.9	274.4	258.4	271.6	265.1	250.0	257.6	201.4	262.5
Transportation services	403.5	404.9	411,3	408.2	406.6	410.9	410.5	408.2	409.7
Advertising	384.7	409.1	432.9	411.5	416.2	425.3	429.6	435.1	437.1
Fuel & power	578.2	619.4	871.4	620.0	641.5	852.6	615.0	668.0	723.7
Electric	453-3	468.9	477.7	492.0	485.4	484.2	470.3	498.0	493.5
Petroleum	502.0	592.1	744.8	580.0	664.6	693.3	582.6	713.4	892.5
Natural gae	1,042.1	1,070.9	1,071.0	1.087.2	1.074.8	1,092.3	1,059.0	1,056.6	1,062.2
Communications, water & sewage	241.3	247.3	253.1	248.9	248.7	251.5	253.0	253.0	254.9
Rent	272.6	277.1	274.2	277.1	277.1	272.2	274.6	274.9	274,9
Maintenance & repair	395.9	410.7	426.7	412.9	416.2	421.1	425.2	428.2	429.7
Businass services	364.6	388.3	404.7	389.9	393.9	399.0	403.3	407.5	408.0
Supplies	305.6	321.4	321.1	321.1	319.3	318.7	318.9	320.1	322.7
Property taxes & insurance	419.9	439.7	462.2	442.3	449.4	452.7	456.5	468.3	470.2
interest, short-term	150.3	172.1	155.4	164.2	157.6	158.0	160.3	153.2	152.6
Total marketing cost Index	372.4	384.8	397.5	385.1	388.3	393.4	393.9	397.0	400.3

[&]quot;Indexes measure changes in employee earnings & benefits & in prices of supplies & services used in processing, wholesaling, & retailing U.S. farm foods purchased for st-home consumption. P = preliminary.

Information contact: Denis Dunham (202) 219-0870.

Livestock & Products

Table 10.—U.S. Meat Supply & Use _

							Cone	umption	Driman
	Beg. stocks	Produc- tion 1/	Imports	Total supply	Exporte	Ending stocks	Total	Per capita 2/	Primery market price 3/
			Mill	ion pounds 4/				Pounds	
Beef 1988	388	23,589	2,379	26.354	680	422	25,252	72.3	69 54
1989 1990	422 335	23,087 22,738	2,175	26,354 25,684	1,023	335 407	24,328 23,979	68.9 67.4	72.52 77-40
1991 F	407	23,113	2,350. 2,270	25,421 25,790	1.055	315	24.420	68.0	75-81
Pork 1988	360	15,684	1,137	17,181	195	437	16,549	63.5	43.39
1989	437 315	15,813 15,345	896 914	17,148 18,574	262 228	315 298	16,569	63.1 60,6	44.03 54.45
1991 F	298	15,654	960	16.912	240	376	16.297	61.1	50-56
Veal 5/ 1988	4	398	27	427	10	5	412	1.4	89.85
1989 1990		355 330	0	360 334	o	4	356 328	1.2	91.84 96.69
1991 F	4	301	*O	307	0	4	303	1,0	95-101
Lamb & mutton 1988	8	335	51	394	1	6	387	1.4	68.26
1989	8	347	63	416		8	408 419	1.5	67.32
1990 1991 F	8	364 369	57 55	429 429	2 2 2	8 7	420	1.5 1.5	55.54 62-58
Total red meat	758	40,004	3,594	44,350	886	870	42.600	138.6	_
1989	870	39.602 38,775	3.134	43,606	1,287	662	41.657	134.7	<u>-</u>
1990 1991 F	682 719	38,775 39,434	3,321 3.285	42.758 43,438	1,265 1, 297	719 701	40,774 41,440	130.5 131.6	=
Broilers 1988	25	16.187	0	18 212	765	36	15,410	62.6	50.3
1989	25 36	17,428	10	16.212 17,464	814	38	16,612	66.8	59.0
1990 1991 F	38 25	18,680 19,631	0	18,718 19,656	1,143 1,025	25 30	17,550 18,601	69.9 73.5	54.8 51-57
Mature chicken	100	633	0	821	26	157	639	2.6	
1989	188 157	575	0	731	24	189	518	2.1	_
1990 1991 F	18 9 227	567 570	·0	750 797	25 · 26 ·	227 225	504 548	2.0	
Turkeys 1988	288	3,980	0	4,226	51	250	3,928	15.9	51.2
1989	250	4,276	0	4.526 4.911	41	236	4,250	17.1	88.7
1990 1991 F	236 310	4,875 4,886	0	4,911 5.196	53 52	310 260	4,549 4,884	18.1 19.3	63.2 59-65
Total poultry	H=0	24.702		24.000	0.40	442	40.075	81.1	
1988 1989	479 442	20,780 22,280	000	21.259 22.722	842 878	463	19,975 21,380	85.9	_
1990 1991 F	463 562	23,922 25,087	0	24.385 25.649	1.220 1,103	562 515	22,603 24,031	90.0 95.0	Ξ
Red meat & poultry		A A T A 4			4 700	4 010	an ##.	040.6	
1988 1989	1,237 1,312	60,784 81,882	3.5 94 3,134	65.515 66,328	1,728 2,165	1,312 1,125	63,037	219.6 220.6	=
1990	1,125	62,697	3,321	67,143	2,165 2,485	1,281	63,377	220.6	******
1991 F	1.281	64.521	3.285	69.087	2,400	1,216	65,471	226.5	

^{1/} Total including farm production for red meals & federally inspected plus nonfederally inspected for poultry. 2/ Retail weight basis. (The beef carcass-to-retail conversion factor was .71 for 1987, & 70.5 for 1988–90.) 3/ Dollars per cwt for red meat, cents per pound for poultry. Beef: Choice steers, Omaha 1,000–1,100 lb.; pork: barrows and gilts, 7 markets; veal: farm price of calves; lamb & mutton: Choice slaughter lambs, San Angelo: brollers: wholesale 12–city average; turkeys: wholesale NY 8–16 lb. young hene. 4/ Carcass weight for red meats & certified ready-to-cook for poultry. 5/ Beginning 1989 veal trade no longer reported separately. F = forecast. --= not available.

Information contacts: Polly Cochran, or Maxine Davis (202) 219-0767.

Table 11.—U.S. Egg Supply & Use

		Pro-				Hatch-		Consur	nption	
	Beg. stocks	due- tion	lm- ports	Total	Ex- ports	Ing use	Ending stocks	Total	Per capita	Wholesale price*
			М	ill ion dozen						Cts./doz.
1986 1987 1988 1989 1990 1991 F	10.7 10.4 14.4 15.2 10.7 11.2	5.768.3 5.868.2 5.784.2 5.597.8 5.659.2 5,715.0	13.7 5.6 5.3 25.2 9.7 7.0	5.790.7 5.884.2 5,803.9 5,638.2 5.679.6 5,733.2	101.6 111.2 141.8 91.6 100.0 104.0	566.8 599.1 605.9 642.9 675.8 720.0	10.4 14.4 15.2 10.7 11.2 12.0	5,111.9 5,159.5 5,041.0 4,893.0 4,892.5 4,897.2	253.8 253.8 245.6 236.0 233.0 232.3	71.1 61.6 62.1 81.9 82.2 73–79

^{*} Cartoned grade A large eggs, New York. F = forecast.

Information contact: Maxine Davis (202) 219-0767.

Table 12.—U.S. Milk Supply & Use¹

			Come	mercial		Total		Comm	ercial	
	Pro- duc- tion.	Farm use	Farm market- ings	Beg.	lm- ports	Total commer- cial supply	CCC net re- movals	Ending stock®	Disap- pear- ence	All milk price 2/
					Billion pour	nd#				
1983 1984 1985 1986 1987 1988 1989 1990	139.8 135.4 143.0 143.1 142.7 145.2 144.3 148.6 150.3	2.4 2.9 2.5 2.4 2.3 2.2 2.1 2.1	137.2 132.4 140.6 140.7 140.5 142.9 142.2 148.5 148.2	4.6 5.2 4.9 4.6 4.2 4.6 4.3 4.1 5.3	2.6 2.7 2.8 2.7 2.5 2.4 2.5 2.5 2.5	144.4 140.4 148.3 148.1 147.1 150.0 148.9 153.4 156.0	16.8 8.6 13.2 10.6 6.7 8.9 9.0 8.5 7.4	5.2 4.9 4.6 4.2 4.6 4.3 4.1 5.3 4.8	122.4 128.8 130.5 133.3 135.8 136.8 135.8 139.6 143.8	13.58 13.46 12.75 12.51 12.54 13.54 13.75 11.45

^{1/} Milkfat basis. Totals may not add because of rounding, 2/ Delivered to plants & dealers; does not reflect deductions. F = forecast.

Information contact: Jim Miller (202) 219-0770.

Table 13.—Poultry & Eggs

		Annual		1989				1990		
Broiters Federally inspected aloughter,	1988	1989	1990	Dec	July	Aug	Sept	Oct	Nov	Dec
certified (mli, lb.) Wholessle price,	18,124,4	17,334.2	18.572	1.491.1	1,510.6	1,691.9	1.421.4	1.768.6	1,564.3	1.467.1
12-city (cta./lb.) Price of grower feed (\$/ton) Brotler-feed price ratio 1/ Stocks beginning of period (mil. lb.)	56.3 220 3.1	59.0 237 3.0	54.8 218.3 3.0	48,4 220 2.6	59.5 224 3.3	54.9 221 3.0	57.4 220 3.2	48.8 207 2.8	48.0 209 2.7	49.6 213 2.7
Broller-type chicks hatched (mil.) 2/	24.8 5.802.4	35.9 5,944.3	38.3 6,300.6	40. 8 522.1	30.0 541.0	34.3 540.8	25.9 508.6	23.9 510.3	26.9 490.2	27.7 647.1
Turkays Federally inspected slaughter, certified (mll. lb.)	3,923.4	.d.,174.8	4,580,2	334.0	395.7	444.0	382.9	478.4	445.8	200
Wholesale price, Eastern U.S.,		1941 63 47 10	4,000.2	334.0	360.7	444.0	362.9	4/8.4	440.6	328.2
8-16 lb. young hens (cts./lb.) Price of turkey grower feed (\$Ron) Turkey-feed price ratio 1/ Stocks beginning of period (mil. lb.)	61,2 243 3.0 266,2	66.7 251 3.2 249.7	63.2 238.4 3.2 235.9	72.7 246 3.2 258.6	63.4 240 3.2 489.3	66.6 235 3.4 641.7	69.0 239 3.4 593.1	76.2 234 3.6 620.4	73.7 239 3.6 622.9	56.1 237 3.0
Poults placed in U.S. (mil.)	261.4	289.0	304.2	21.5	29.0	25.6	19.7	21.5	21,6	338.4 22.8
Eggs										
Farm production (mlf.) Average number of layers (mil.) Rate of lay (eggs per layer	69.410 277	67,173 269	67,910 270	5. 777 271	5,703 266	5,719 267	5,534 268	5,785 270	5,689 271	5.855 272
On larms) Cartoned Price, New York, grade A	251	250	251.7	21.3	21.4	21.4	20.0	21.5	21,0	21.5
large (cts/doz.) 3/ Price of laying feed (\$/ton) Egg-feed price ratio 1/	62.1 202 5.3	81,9 208 6.7	82.2 202 6.9	99.6 200 8.3	70.9 206 5.4	80.3 205 6.4	82.2 204 6.7	86.5 199 7.4	86.5 200 7.3	92,5 199 7,7
Stocks, first of month										
Shell (mil. doz.) Frozen (mil. doz.)	1.29 13.1	0.27 14.9	0.38 10.3	0.33 10.2	0.66 13.7	0.87 13.0	0.57 13.0	0. 54 12.8	0.33 12.8	0.48 13.0
Replacement chicks hatched (mil.)	360	384	400.8	29.3	31.7	33.0	32.7	32.1	30.0	31.1

^{1/} Pounds of feed equal in value to 1 dozen eggs or 1 fb, of broller or turkey liveweight. 2/ Piacement of broller chicks is currently reported for 15 States only; henceforth, hatch of broller-type chicks will be used as a substitute. 3/ Price of cartoned eggs to volume buyers for delivery to retailers.

Information contact: Maxine Davis (202) 219-0767.

Table 14.—Dairy

		Annual		1989				1990		
	1988	1980	1990	Deo	July	Aug	Sept	Oct	Nov	Dec
Milk prices, Minnesota-Wisconsin, 3.5% fat (\$/cwt) 1/	11.03	12.37	12.21	14.93	13.43	13.09	12.50	10.48	10.25	10.19
Wholesale prices Butter, grade A Chi. (cts./b.)	132.5	127.0	102.1	120.0	100.3	98.9	98.9	98.9	98.9	98.0
Am. cheese, Wis, assembly pt. (cts./ib.) Nonfat dry milk (cts./ib.) 2/	123.8 80.2	138.6 105.5	136.2 100.6	162.2 128.0	151.0 125.2	150.3 112.1	142.8 92.0	114.9 88.6	112.0 66.8	112.7 86.2
USDA net removala Total milk equiv. (mil. lb.) 3/ Butter (mil. lb.) Am. cheese (mil. lb.) Nonfat dry milk (mil. lb.).	8,856.2 312.8 238.1 267.6	8.967.0 413.4 37.4 0	8,640.5 400.3 21.5 117.8	463.4 22.1 0 0	467.8 15.6 0 0	324.5 15.6 0	119.2 5.6 0 15.9	249.9 11.8 0 22.5	273.9 10.8 4.5 34.1	803.4 30.5 17.0 42.8
Milk Milk prod. 21 States (mil. lb.) Milk per cow (lb.) Number of milk cows (1,000) U.S. milk production (mil. lb.)	123,518 14,291 8,643 145,152	122,531 14,370 8,527 144,252	125,982 14,772 8,529 148,555	10,047 1,178 8,544 11,880	10,695 1.257 6.511 6/ 12,580	10.479 1.229 8,523 6/ 12.325	10,019 1,173 6,540 6/ 11,784	10,249 1,200 8,542 6/ 12,109 6	19,030 1,172 8,559 / 11,850 6/	10,457 1,222 8,555 12,355
Stock, beginning Fotal (mil. lb.) Commercial (mil. lb.) Government (mil. lb.) Imports. total (mil. lb.) 3/	7.440 4.646 2.794 2,394	8.234 4,289 3,945 2,499	8,795 4,131 4,864	9,608 4,198 5,410 285	13.241 6.495 7.746 233	13,452 5,653 7,799 208	13,451 5,607 7,844 222	12,982 6,355 7,628 248	12,834 5,198 7,835 262	12.605 5,1 64 7,440
Commercial disappearance (mil. lb.)	136,805	135.843	_	11,391	12.012	12,079	11,989	12.089	11,702	_
Butter Production (mil. lb.) Stocks, beginning (mil. lb.) Commercial disappearance (mil. lb.)	1,207.5 143.2 909.8	1,273,5 214.7 854.1	1.285.7 256.2	107.4 294.1 87.6	85.1 417.2 64.6	83. 5 418.1 66.7	84.8 423.9 86.2	105.0 408.8 93.3	111.0 411.3 97.7	118.5 404.6
American cheese Production (mlt, lb.) Stocks, beginning (mlt, lb.) Commercial disappearance (mlt, lb.)	2,756. 6 370.4 2,57 0.0	2,672.6 293.0 2,681.6	2,891.3 236.2	230.8 238.0 231.9	236.4 333.1 214.7	229.3 357.8 232.0	220.5 356.5 230.2	238.9 347.4 248.8	235.4 337.3 23 6.5	251.6 334.6
Other cheese Production (mil. lb.) Stocks, beginning (mil. lb.) Commercial disappearance (mil. lb.)	2,818.4 89.7 3,034.5	2,941.3 104.7 3,208.9	3,146.7 93.2	258.7 95.4 293.2	266.2 129.1 296.9	258.6 124.0 290.6	256.2 117.0 285.0	266.8 111.1 298.0	253.5 107.1 286.4	264.3 102.9
Nonfat dry mifk Production (mil. lb.) Stocks, beginning (mil. lb.) Commercial disappearance (mil. lb.)	970.7 177.2 734.3	874.7 53.1 873.0	869.9 49.5	84.8 32.5 48.7	72.7 93.3 57.7	62.9 108.7 48.0	50.8 123.6 42.2	55.2 121.2 32.9	71.1 129.2 37.3	78.0 143.6
Prozen dessert Production (mil. gal.) 4/	1,248.0	1.214.0	1.187.2	77.1	125.3	116.0	94.0	,91.3	78.3	74.1
		Annual			1989			1	990	
	1988	1989	1990	H	Ш	IV	1	ILP	EN P	IVP
Milk production (mil. ib.) Milk per cow (ib.) No. of milk cows (1,000) Milk-feed price ratio 5/ Returns over concentrate 5/ costs (\$/ovt milk)	145.152 14.145 10.282 1.58 9.05	144.252 14,244 10.127 1,64 10.08	148,555 14,646 10,144 1,72 19,40	37,702 3,727 19,116 1,48 8,98	35,188 3,484 10,101 1.63 9.92		36,940 3,644 10,137 1.82 11.30	38.611 3.813 10,126 1.89 10.27	36,689 3,618 10,142 1,76 10,90	36.314 3.571 10.169 1.60 9.30

1/ Manufacturing grads milk. 2/ Prices paid f.o.b. Central States production area. 3/ Milk equivalent, lat basis. 4/ Hard ice cream, ice milk, 5, hard sherbet. 5/ Based on average milk price after adjustment for price support deductions. 6/ Estimated. P = preliminary. — = not available.

Information contact: LaVerne T. Williams (202) 219-0770.

Table 15.—Wool

		Annual			1989		19	190	
	1988	1989	1990	181	JV	1	Jł.	III.	IV
U.S. wool price, (cts./lb.) 1/	438	370	258	350	328	289	272	238	227
Imported wool price, (cte./lb.) 2/	372	354	287	309	316	327	312	281	270
U.S. mill consumption, acoured 3/								25 224	00.500
Apparel wool (1,000 lb.)	117,069	112,998	14,168	25,983	24,921	29,948	29,998	25.631	26.523
Carpet wool (1,000 lb.)	15,833	14,122	14,134	3,665	2,984	3,779	2.923	3,771	2,977

1/ Wool price delivered at U.S. mills, clean basis, Graded Territory 64's (20.60-22.04 microns) staple 2-3/4" & up. 2/ Wool price, Charleston, SC warehouse, clean basis, Australian 60/62's, type 64A (24 micron). Duty since 1982 has been 10.0 cents. 3/ Beginning 1990 mili consumption reported only on a quarterly basis.

Information contact: John Lawler (202) 219-0840.

Table 16.—Meat Animals

		Annual		1989				1990		
	1988	1989	1990	Dec	July	Aug	Sept	Oct	Nov	Dec
Caltie on feed (7 States) Number on feed (1,000 head) 1/ Placed on feed (1,000 head) Marketings (1,000 head)	8,411 20,654 19,918	8.045 20.834 19,422	8.378 21,215 19,238	8,331 1,537 1,403 87	7.310 1,520 1,750	7,003 1,735 1,666 82	6,990 2,204 1,445 79	7,670 2,751 1,605 87	8.729 2,007 1,512 95	9.129 1,478 1,349 121
Other disappearance (1,000 head) Beef steer-corn price ratio, Omaha 2/	1,202 31.5 19.8	1,079 30.3 18.4	1,218 32.8 23.1	32.8 21.7	28.5 23.9	30.9 23.1	34.5 25.1	36.5 27.0	37.3 23.2	36.5 22.0
Hog-corn price ratio, Omeha 2/ Market prices (\$/cwt) Slaughter cattle Choice steers, Omaha	69,54	72.52	77.40	75.21	74.48	76,22	75.75	77.50	79.93	80.88
Utility cows, Omaha Feeder cattle 'Choica, Kansas City, 600-700 lb.	48.55 83.68	47.88 88.13	63.31 90.88	49.38 86.25	54.58 93.60	66.97 92.30	54.33 91.50	81.10 NO	50.48 92.75	50.00 92.67
Slaughter hoge Barrows & gitts, 7-markets Feeder pigs	43.39	44.03	54.45	49.33	61.87	66.05	65.10	57.15	49.70	48 15
S. Mo. 40–50 lb. (per head) Slaughter sheep & lambs Lambs, Choice, San Angelo	38.08	33.63	51.46	38.21	46.35 53.25	45.85 51.20	45.91 51.75	52.33 52.50	48.22 50,42	49.63
Ewes. Good, San Angelo Feeder lambs Choice, San Angelo	38.88	38.58 79.85	35.21 62.95	39.42 76.00	34.83 53.75	38.80 58.30	32.88 55.75	32.00 55.90	33.83 57.83	34.67 59.17
Wholesale meat prices, Midwest Boxed beef cut-out value* Cenner & cutter cow beef Pork loins, 14-18 lb. 3/ Pork belifies, 12-14 lb. Hame, skinned, 14-17 lb.	110.50 87.77 97.49 41.25 71.03	114.78 94.43 101.09 34.14 69.39	123.21 99.96 117.52 53.80 87.70	119.52 100.73 107.28 42.23 78.89	118.54 101.62 144.14 53.18 91.00	121.52 105.22 119.58 51.08 NQ	121.18 101.83 121.64 51.31 101.75	124,96 102,58 113,71 59,83 107,24	128.32 99.57 98.94 50.57 108.00	129.48 104.74 103.50 56.58 86.13
All fresh beef retail price 4/	224.81	238.97	254.00	265.75	255.75	254.71	256.39	259.36	265.75	262.84
Commercial slaughter (1,000 head)* Cattle Steers Heifers Cows Buils & stags Calves Sheep & lambs Hogs	35.081 17.344 10.754 6.338 644 2.507 5.294 87,794	33,918 16,536 10,406 6,316 657 2,172 5,468 88,691	33,220 16,577 10,089 5,910 644 1,807 5,649 85,116	2,680 1,283 790 559 46 172 469 7,233	2,852 1,451 909 439 53 144 447 6,154	2,983 1,508 926 486 63 152 482 7,301	2.014 1.275 842 444 55 138 439 6,890	2.980 1,401 919 579 61 162 607 7,739	2,701 1,302 787 559 63 156 480 7,536	2,451 1,227 694 485 45 142 464 7,354
Commercial production (mil. lb.) Seef Veal Lamb & mutton Pork	23,424 387 329 15,623	22.974 344 341 15.759	22,618 321 360 15,291	1,828 25 31 1,288	1,939 26 28 1,102	2,062 28 30 1,309	1,813 26 27 1,228	2,042 31 32 1,389	1,842 29 30 1,374	1,680 28 30 1,342
		Annual		1	989		1	990		1991
	1988	1989	1990	\$11	IV	I	li li	111	IV	1
Cattle on feed (13 States) Number on feed (1,000 head) 1/ Placed on feed (1,000 head) Marketings (1,000 head) Other disappearance (1,000 head)	10,114 24,423 23,459 1,390	9,688 24,469 22,940 1,274	9,943 24,948 22,561 1,393	8.680 5.719 5.896 227	8.276 7,306 5,346 293	9,943 6,083 6,578 385	10,063 5,086 5,988 400	8,761 6,333 5,741 261	9,092 7,446 5,254 347	10,937 6/ 5,745
Hogs & pige (10 States) 5/ Inventory (1,000 head) 1/ Breeding (1,000 head) 1/ Market (1,000 head) 1/ Farrowings (1,000 head) Pig crop (1,000 head)	42,675 5,435 37,240 9,370 72,268	43,210 5,335 37,875 9,203 71,807	42,200 5,280 36,920 8,989	44,020 5,565 38,455 2,324 18,167	45,200 5,335 39,865 2,190 16,890	42.200 5.280 36.920 2.013 15,748	40,190 5,250 34,940 2,458 19,578	42.800 5,440 37.360 2,266 17.922	44,410 5,340 39,070 7 2,252	

1/ Beginning of period. 2/ Bushels of corn equal in value to 100 pounds live weight. 3/ Prior to 1984, 8-14 lb.; 1984 & 1985, 14-17 lb; beginning 1988, 14-18 lb. 4/ New series estimating the composite price of all beef grades & ground beef sold by retail stores. This new series is in addition to, but does not replace, the series for the retail price of Choice beef that appears in table 8, 5/ Quarters are Dec. of preceding year-Feb. (I), Mar.-May (II), June-Aug. (III), & Sept-Nov. (IV). 6/ Intentions.

Classos estimated NQ = not quote. — = not available.

Note: "This series replaces the Choice steer beef price, 600-700 1b,, which was discontinued with the June number. The new number is the value of Choice beef from a yield grade 1-3, 550-700 lb, carcass.

Information contact: Polly Cochran (202) 219-0767.

Crops & Products

Table 17.—Supply & Utilization 1,2

		Area					F 4	Ou				
	Set acide 3/	Planted	Harvest- ted	Yield	Produc- tion	Total supply 4/	Feed and resid- ual	Other domes- tic	Ex- porte	Total use	Ending stocks	Farm price 5/
		Mil acrea		Bu /acre				Mil. bu.				\$/ bu.
Wheat 1985/86 1986/87 1987/88 1988/89* 1989/90*	18.8 21.0 23.9 22.5 9.6 7.1	75.6 72.1 65.8 65.5 76.6 77.3	84.7 80.7 56.0 53.2 62.1 69.4	37.5 34.4 37.7 34.1 32.7 39.6	2,424 2,091 2,108 1,812 2,037 2,739	3.865 4,017 3,945 3,096 2,762 3,310	284 401 280 157 160 450	767 796 806 818 832 853	909 999 1.598 1.419 1.233 1.025	1,960 2,196 2,684 2,394 2,225 2,328	1,905 1,821 1,261 702 536 982	3.08 2.42 2.57 3.72 3.72 2.65–2.65
		Mil. ncren		Lb./acre			1	Mil. cwt (rough	(.viupe			\$/cwt
Rice 1985/86 1986/87 1987/88 1988/89* 1989/90* 1990/91*	1.24 1.48 1.57 1.09 1.21 1.03	2.51 2.38 2.36 2.93 2.73 2.89	2.49 2.36 2.33 2.90 2.69 2.81	5.414 5.651 6,656 5.514 5,749 5,607	134.9 133.4 129.6 159.9 154.5 184.9	201.8 213.3 184.0 195.0 185.4 186.0	=	6/ 65.8 6/ 77.7 6/ 80.4 6/ 82.3 6/ 82.4 6/ 88.8	58.7 84.2 72.2 85.9 70.8 73.0	124.5 151.9 152.6 168.2 159.2 151.8	77.3 51.4 31.4 26.7 28.3 24.2	6.53 3.75 7.27 6.83 7.35 6.25–7.25
Corn		Mil. acres		Bu /acre				MII. bu.				\$/bu.
1985/86 1986/87 1987/88 1988/89* 1989/90* 1990/91*	5.4 14.3 23.1 20.5 10.8 10.1	83.4 76.7 65.2 67.7 72.3 74.2	75.2 68.9 69.5 58.3 64.8 67.0	118.0 119.4 119.8 84.0 110.2 118.6	8.875 8.226 7,131 4.929 7.525 7.933	10.534 12,267 12,016 9,191 9,458 9,280	4.107 4.701 4.812 3,987 4.456 4.850	1.100 1.192 1.229 1.245 1.290 1.320	1.227 1.492 1,716 2.028 2.367 1,850	8.494 7.325 7.757 7,260 8,113 8.020	4,040 4,882 4,259 1,930 1,344 1,280	2.23 1.50 1.94 2.64 2.38 2.20-2.40
		MIE, noran		8u./ecre				Míl. bu				\$/bu.
Sorghum 1985/88 1986/87 1987/88 1988/89* 1989/90* 1990/91*	0.9 3.0 4.1 3.9 3.3 3.0	18.3 15.3 11.6 10.3 12.6 10.7	18.8 13.9 10.5 9.0 11.2 9.1	66 B 67.7 69 4 63 8 55.4 62 9	1,120 938 731 577 615 571	1.420 1.489 1.474 1.239 1.055 791	684 636 655 488 513	28 12 25 22 15	178 198 231 310 307 200	869 748 811 800 835 715	551 743 663: 440 220 76	1.93 1.37 1.70 2.27 2.10 2.05-2.26
Declar	1	Mil. acres		Bu/acre				Mil. bu.				\$/bu.
8arley 1985/86 1986/87 1987/88 1988/89* 1989/90*	0.7 2.1 2.9 2.8 2.3 2.8	13.2 13.1 11.0 6.8 9.2 8.3	11.8 12.0 9.9 7.6 8.3 .7.5	51.0 50.8 52.4 38.0 46.6 55.9	591 611 521 290 404 419	848 944 889 622 615 590	333 298 254 166 185 176	169 174 174 180 180 185	22 137 120 78 89	523 508 548 425 454 450	325 336 321 196 461 140	1.98 1.61 1.81 2.80 2.42 2.10-2.20
		Míl. acres		Bu /acre				Mil. bu.				\$/bu
Oats 1985/86 1986/87 1987/88 1986/89* 1989/90* 1990/91*	0 1 0 6 0.8 0.3 0 4 0.2	13.3 14.7 18.0 13.9 12.1 10.4	8.2 6.9 5.5 6.9 5.9	83.7 66.3 64.0 39.3 64.3 80.1	521 386 374 218 374 357	728 503 552 393 544 574	460 395 358 194 272 330	82 73 81 100 115 120	3 1 1 1 1	544 471 440 294 387 450	184 133 112 98 157 124	1.23 1.21 1.86 2.61 1.49 1.10~1.20
0		Mil. acres		Bu/acre				Mil. bu.				\$/bu.
50ybeans 1985/88 1986/87 1987/88 1988/89* 1989/90* 1990/91*	0	63.1 60.4 58.2 58.8 60.8 57.8	51.6 58.3 57.2 57.4 59.5 56.5	34.1 33.3 33.9 27.0 32.3 34.0	2.099 1,940 1,938 1,549 1,924 1,922	2.415 2.476 2.374 1.855 2,109 2,163	0 0 0 0	1.053 1.179 1.174 1.058 1.148 1.180	740 757 802 527 623 565	1,879 2,040 2,072 1,673 1,870 1,843	536 436 302 182 239 320	5 05 4.78 5.88 7.42 5.70 5.40-8.00
Coutana oil								MII. Iba.				7/ Cis./lb.
Soybean oil 1985/86 1986/87 1987/89 1988/89* 1989/90* 1990/91*	111111	=======================================	=	=	11.617 12,783 12.974 11,737 13.004 13.125	12.257 13.745 8/ 14.895 8/ 13.967 8/ 14.741 8/ 14.450	=======================================	10,053 10,833 10,930 10,591 12,083 12,000	1,257 1,187 1,873 1,661 1,353 1,100	11,310 12,020 12,803 12,252 13,438 13,100	947 1,725 2,092 1,715 1,305 1,350	18.00 15.40 22.65 21.10 22.30 21.0-23.0
Souhare								1.000 tons				9/ \$/ton
Soybean meai 1985/86 1986/87 1987/88 1988/89* 1989/90" 1990/91*			=		24.951 27,758 26.060 24,943 27,719 28,027	25,338 27,970 28,300 25,100 27,900 28,350		19.090 20.387 21,293 19.539 22,558 23,000	6.036 7,343 6,854 5.268 5.024 5,000	25,126 27,730 26,147 24,927 27,582 28,000	212 240 153 173 318 300	155 163 222 233 174 150-170

See footnotes at end of table.

Table 17.—Supply & Utilization, continued

		Area					Feed	Other				
	Set Ande 3/	Planted	Harves- ted	Yield	Produc- tion	Total supply 4/	resid- uel	domes- lic use	Ex- ports	Total	Ending Stocks	Ferm price 5/
Cotton 10/		Mil. ocrau		Lb Jacre				Mil. bales				
1985/85 1986/87	3.6	10.7 10.0	10.2 8.5	630 552	13.4 9.7	17.6 19.1	_	8.4 7.4	2,0 6.7	14.1	9.4 5.0	58.50 52.40
1987/88	3.9 2.2 3.5	10.4 12.5 10.8	10.0 12.0 9.5	706 619 614	14.8 15.4 12.2	19 6 21.2 19.3	=	7.8 7.8 8.8	6.6 6.2 7.7	14.2	5.8 7.1 3.0	64.30 56.60
1989/90* 1990/91*	1.9	12.4	11.7	840	15.0	18.6	_	6.4	0.0	18.4 18.4	2.0	66.20

^{*}February 11, 1991 Supply & Demand Estimates. 1/ Marketing year beginning June 1 for wheat, bariey, & cets, August 1 for cotton & rice, September 1 for soybeans, corn, & sorghum, October 1 for soymeal & soyoii. 2/ Conversion factors: Hectare (hs.) = 2.471 acres, 1 metric ton = 2204 622 pounds, 38,7437 bushels of wheat or soybeans, 39,3879 bushels of corn or sorghum, 45,9296 bushels of bariey, 68,8944 bushels of cats, 22,048 cwt of rice, & 4.59 480—pound bales of cotton. 3/ includes diversion, PiK, acresge reduction, 50–92, & 0–92 programs. 4/ includes imports. 5/ Market sverage prices do not include an allowance for loans outstanding & Government purchases, & Fleefeldual included in domestic use, 7/ Average of crude soybean oil, Decatur. 3/ includes 198 million pounds in imports for 1987/88, 138 million in 1989/90, & 50 million in 1990/91. B/ Average of 44 percent, Decatur. 10/ Upland & sytra long stable. Stocks satimates based on Cansus Bureau data, resulting in an unaccounted difference between supply & use astimates & changes in ending stocks. — = not available or not applicable.

Information contact: Commodity Economics Division, Crops Branch (202) 219-0840.

Table 18.—Food Grains

		Marketis	ng year 1/		1969			1990		
Alberta de la lac	1986/87	1987/88	1988/89	1989/90	Dec	Aug	Sept	Oct	Nov	Dec
Wholasale prices Wheat, No. 1 HRW.										
Kanese City (\$/bu.) 2/	2.72	2.96	4.17	4.22	4.39	2.89	2.63	2.81	2.78	2.78
Wheal, DNS, Minneapolis (\$/bu.) 3/	3.07	3,16	4.35	4.18	4.23	3.05	2.84	2.85	2.80	2.82
Rice. S.W. La. (\$/cwt) 4/	10.25	19.25	14 85	15,56	14.65	14.65	13.95	13.75	14.50	14.50
Wheat		10			14.00	14.44	10.00	10.10		14.00
Exports (mll. bu.)	1,004	1.592	1,424	1,233	85	96	109	88	81	61
Mili grind (mil. bu.)	755	753	778	759	59	74	07	75	73	64 20
Wheel flour production (mil. cwt)	335	336	348	347	26	33	30	33	33	20
Exports (mil. swt, rough equiv.)	84.2	72.2	85.9	76.8	0.0	4.5	8.5	9.0	8.4	_
		Marketing yea	ur 1/		1989				1990	
	1987/88	1988/89	1989/90	Mar-May	June-Aug	Sept-Nov	Dec-Feb	Mar-May	June-Aug	Sept-Nov
Vheat			***		***					
Stocke, beginning (mll. bu.) omestic use	1.821	1.261	702	1.227.7	701.6	1,917.2	1.423.7	943.1	536.5	2,409.5
Food (mll. bu.)	721	715	731	165.0	183.1	183.1	180,5	184.3	197.4	211.6
Seed, feed & residual (mil. bu.) 5/	385	260	261	-2.8	273.0	-12.8	44.9	-44.9	408.0	23.5
xports (mil. bu.)	1.598	1.410	1.233	366.0	389.0	328 6	259 7	274 8	289 1	278 0

1/ Beginning June 1 for wheat & August 1 for rice, 2/ Ordinary protein. 3/ 14% protein. 4/ Long grain, milled basis. 5/ Residual includes feed use. — = not available.

Information contacts: Ed Alien & Janet Livezey (202) 219-0840.

Table 19.—Cotton

		Market	ling year 1/		1989			1990		
U.S. Price, SLM,	1986/87	1987/88	1988/89	1989/90	Dec	Aug	Sept	Oct	Nov	Dec
1-1/16 in. (cts./ib.) 2/ Northern Europe prices	53.2	63.1	57.7	8.96	63 6	76.3	71.0	70.5	69.5	89.9
Index (cta./lb.) 3/ U.S. M 1-3/32 in. (cta./lb.) 4/	62.0 61.8	72.7 76.3	66.4 69,2	82.3 83 6	77.3 76.3	61.0 80.5	81.4 61.7	81.5 82.4	82.72 83.20	83. 6 0 84.00
U.S. mill consumpt. (1,000 bales) Exports (1,000 bales) Stocks, beginning (1,000 bales)	7,452 6,684 9,348	7.617 6,582 5.026	7,782 6,148 5,771	6.759 7.694 7.092	579 682 12.551	829 544 3,000	692 412 2.224	802 377 3.207	687 718 7,498	10,680

1/ Beginning August 1, 2/ Average spot market. 3/ Liverpool Cotlook (A) index; average of five lowest priced of 11 selected growths. 4/ Memphis territory growths. — = not available.

information contact: Scott Senford (202) 219-0840.

Table 20.—Feed Grains_

		Marke	ting year 1/		1989			1990		
	1986/87	1987/88	198 8/89	1989/90	Dec	Aug	Sept	Oct	Nov	Dec
Wholesale prices Corn. no. 2 yellow, 30 day, Chicago (\$/bu.)	1.64	2.14	2.68	2.53	2.34	2.52	2.33	2.24	2.33	2.33
Sorghum, no. 2 yellow, Kansas City (\$/cwt)	2.73	3.40	4.18	4.18	3.98	4.27	3.89	3.79	3.85	3.97
Barley, feed, Duluth (\$/bu.) 2/	1.44	1.78	2.31	2.20	2.23	1.99	2.01	2.11	2.16	2.07
Barley, maiting. Minneapolis (\$/bu.)	1.89	2.04	4011	3.20	3,19	2.35	2.32	2.30	2.40	2.31
Exporte 3/ Corn (mil. bu.) Feed grains (mil. metric tons) 4/	1,504 46.3	1,723 52.3	2.028 61.3	2.387 69.9	258 7.3	153 4.7	108 3.2	108 3.5	168 5.0	142 4.3
		Marketi	ng year 1/		1	1989			1990	
	1986/87	1987/88	1988/89	1989/90	June-Aug	Sept-Nov	Dec-Feb	MarMay	June-Aug	Sept-Nov
Corn Stocks, beginning (mil. bu.)	4,040	4.882	4.250	1,930	3.419	1,930	7.082	4.812	2.843	1,344.5
Domestic use Feed (mil. bu.) Food, esed, ind. (mil. bu.) Exports (mil. bu.) Total use (mil. bu.)	4,714 1,192 1,504 7,410	4,805 1,229 1,723 7,757	3,979 1,245 2,038 7,260	4,456 1,271 2,367 8,114	690 330 470 1,490	1,494 298 582 2,374	1,291 297 882 2,270	1,014 338 601 1,970	656 338 502 1,499	1, 8 48 305 385 2,338

^{1/} September 1 for corn & sorghum; June 1 for cate & barley. 2/ Beginning March 1987 reporting point changed from Minneapolis to Duluth. 3/ Includes products. 4/ Aggregated data for corn, sorghum, cats, & barley. — = not available.

Information contact: James Cole (202) 219-0840.

Table 21.—Fats & Oils _

		Marke	ting year *		1989			1990		
	1985/88	1986/87	1987/88	1988/89	Nov	July	Aug	Sept	Oct	Nov
Soybeans Wholesale price, no. 1 yellow,						_				
Chicago (\$/bu.)	6.20	5.03	8.67	7.41	5.76	6.05	6.06	8.19	6.09	5.72
Crushinge (mll. bu.)	1.052.8	1,178.8	1,174.5	1,057.7	104.1	92.2	92.8	92.1	106.1	106.0
Exports (mil. bu.)	740.7	756.9	801.6	530,6	76.7	20.8	28.3	27.9	29.8	62.8
Stocke, beginning (mil. bu.)	316.0	538.4	436.4	302.5	96.3	58.8	46.9	45.2	34.5	130.1
Soybean oil Wholesale price, crude,										
Decatur (cts./lb.)	18.02	15.38	22.67	21.09	19.50	23.5	25.0	24.5	22.6	21.1
Production (mil. lb.)	11.817.3	12.783.1	12,974.5	11.737.0	1,145.4	1,038.0	1,059.2	1.038.1	1,188.1	1,168.0
Domestic disap, (mil. lb.)	10,045.9	10,820.2	10,734.1	10,455.6	1,045.4	903.9	1,029.8	795.1	1.211.3	956.8
Exports (mil. lb.)	1,257.3	1,184.5	1,873.2	1,658.2	82.5	122 6	82.5	298.9	85.4	107.2
Stocks, beginning (mil. lb.)	632.5	945.6	1.725.0	2,092 2	1,514.6	1.421.7	1,433.2	1.380.2	1,324.6	1.215.9
Soybean meal Wholesale price, 44% protein,										
Decatur (\$/ton)	154.88	162.61	221.90	233.46	183.40	171.32	172,40	178,90	172.50	163.00
Production (1,000 ton)	24.951.3	27,758.8	28,060.2	24.942.7	2,492.5	2,196.8	2.237.1	2,187.3	2.385.5	2.388.0
Domestic disap. (1,000 ton)	19.117.2	20,387.4	21,275.9	19.792.5	2,147.4	1.903.0	1,955.9	1.855.8	2.220.3	2,081.6
Exports (1,000 ton)	6,009.3	7,343.0	6,871.0	5,130.8	371.4	288.4	316.9	245.3	289.2	500.7
Stocks, beginning (1,000 ton)	386.9	211.7	240.2	153.5	267.8	262.5	267.7	232.9	318.3	220.5
Margarine, wholesale price,										
Chicago, white (cts./lb.)	51.2	40.3	40.3	52.3	52.1	63.6	62.5	61.9	61.7	81.5

^{*} Beginning September 1 for soybeans; October 1 for soymeal & oil; calendar year for margarine.

Information contacts: Roger Hoekin (202) 219-0840, Tom Bickerton (202) 219-0824.

Table 22.—Farm Programs, Price Supports, Participation & Payment Rates.

					Payment rates				
	Target price	Loan	Findley loan rate	Deficiency	Paid land diversion	PIK	Base acres 1/	Program 2/	Partici- pation rate 3/
			\$/bu.	4		Percent 4/	Mil.		Percent of base
Wheat 1984/85 1985/86 1986/87 5/ 1987/88 1988/89 1988/90 1990/91	4.38 4.38 4.38 4.38 4.23 4.10 4.00	3.30 3.00 2.85 2.76 2.58 2.44	2.40 2.28 2.21 2.06 1.95	1.00 1.08 1.98 1.81 0.89 7/ 0.32 1.00	2.70 2.70 2.00	1.10	94.0 94.0 91.6 87.6 84.8 82.3 80.5	20/10/10-20 20/10/0 22.5/2.5/5-10 27.5/0/0 27.5/0/0 10/0/0 5/0/0	60/60/20 73 85/85/21 88 86 78 80
Rice	44.00		\$/cwt						
1984/85 1985/86 1986/87 6/ 1987/88 1988/89 1989/90 1990/91	11.90 11.90 11.90 11.66 11.15 10.80 10.71	8.00 8.00 7.20 8.84 8.63 6.50 6.60	6/ 3.16 6/ 3.82 6/ 5.77 6/ 8.30 6/ 6.60	3.76 3.90 4.70 4.82 4.31 3.56 3.71	3 60		4.1 4.2 4.2 4.1 4.1 4.1	25/0/0 20/15/0 35/0/0 35/0/0 25/0/0 25/0/0 20/0/0	85 90 94 96 94 95 92
Corn			\$/bu.						
1984/85 1985/86 1986/87 5/ 1987/88 1988/89 1989/90 1990/91	3.03 3.03 3.03 3.03 2.93 2.84 2.75	2.55 2.55 2.40 2.28 2.21 2.06 1.96	1 92 1.82 1.77 1.65 1.57	0.43 0.48 1.11 1.09 7/ 0.38 7/ 0.58 0.16	2.00		80.8 84.2 81.7 81.5 82.9 82.7,	10/0/0 10/0/0 17.5/2.5/0 20/15/0 20/10/0; 0/92 10/0/0; 0/92 10/0/0; 0/92	54 69 86 90 87 80 76
Sorghum			\$/bu.						
Sorghum 1984/85 1985/86 1986/87 6/ 1987/88 1988/89 1989/90 1990/91	2.88 2.88 2.88 2.88 2.78 2.70 2.61	2.42 2.42 2.28 2.17 2.10 1.96 1.86	1.82 1.74 1.65 1.57 1.49	0.46 0.40 1.06 0.82 0.48 7/ 0.66 0.21	0.65 1.90 1.85		18.4 19.3 19.0 17.4 18.8 16.2 15.4	8/ (same)	42 55 75 84 82 71 75
Barley			\$/bu.						
Barley 1984/85 1985/86 1986/87 6/ 1987/88 1988/89 1989/90 1990/91	2.80 2.80 2.60 2.60 2.51 2.43 2.38	2.08 2.08 1.95 1.80 1.80 1.68 1.60	1.56 1.49 1.44 1.34 1.28	0.26 0.52 0.99 0.52 1.04 7/ 0.23 0.26	0.67 1.80 1.40		11.6 13.3 12.4 12.5 12.5 12.4 11.0	8/ (same)	44 57 72 84 79 69
Oate			\$/bu.						
1984/85 1985/86 1986/87 5/ 1987/88 1986/89 1989/90 1990/91	1.60 1.60 1.60 1.60 1.55 1.50 1.45	1.31 1.31 1.23 1.17 1.13 1.06 1.01	0.99 0.94 0.90 0.85 0.81	0.00 0.29 0.38 0.20 0.30 0.00 0.00	0.80		9.8 9.4 9.2 8.4 7.0 7.0 7.5	8/ (same) 5/0/0; 0/92 5/0/0; 0/92 5/0/0; 0/92	14 14 37 45 30 23
Soybeane 9/			\$/bu.						
1984/85 1985/60 1986/87 5/ 1987/88 1988/89 1989/90 1990/91		5.02 5.02 4.77 4.77 4.77 4.63 4.60	Cte./lb.					10/ 10/25 10/ 0/25	
Upland cotton 1984/85 1985/86 1986/87 5/ 1987/88 1988/89 1989/90 1990/91	81.0 81.0 81.0 79.4 75.9 73.4 72.9	55.00 57. 30 66.00 62.25 61.80 60.00 60.27	11/ 44.00 12/ — 12/ — 12/ — 12/ —	18.60 23.70 26.00 17.3 19.4 13.1 6.3	30.00	=======================================	15.6 15.9 15.5 14.5 14.5 14.8 14.8	25/0/0 20/10/0 25/0/0 25/0/0 12.6/0/0 12.5/0/0 12.5/0/0	70 82/0/0 93 93 89 89 88

1/ Includes planted area plue acres considered planted (ARP, PLD, 0—92 etc). Net of CRP, 2/ Percentage of base acres that farmers participating in Acreage Reduction Programs/Paid Land Diversion/PiK, were required to devote to conserving uses to receive program benefits. 3/ Percentage of base acres enrolled in Acreage Reduction Programs/Paid Land Diversion/PiK. 4/ Percent of program yield, except 1988/87 wheat, which is dollars per bushel. 1984 PiK rates apply only to the 10–20 portion. 5/ Rates for payments received in cash were reduced by 4.3 percent in 1986/87 due to Gramm-Rudman-Hollings. 6/ Annual average world markst Price. 7/ Guaranteed to farmers signed up for 0/92, 8/ The sorghum, oats, & barley programs were the same as for corn in each year except 1988–90, when the oats ARP was lower than for the other feed grains. 9/ There are no target prices, acreage programs, or payment rate or soybeane. 10/ Soybean program data rater to percent of program crop base permitted to shift into beans without loss of base, 11/ Loan repayment rate. 12/ Loans may be repaid at the lower of the loan rate or world markst Prices. *On September 13, the Secretary announced that participating farmers have the option of Planting up to 105 percent of their wheat base to boost 1990 supplies. For every acre planted in excess of 95 percent of base, the agreege used to compute deficiency payments will be out by 1 acre.

Information contact: James Cole (202) 219-0840.

Table 23.—Fruit

	1982	1983	1984	1985	1988	1987	1988	1989	1990 P
Citrus 1/ Production (1,000 ton) Per capita consumpt. (lbs.) 2/	12,139	13.682	10,832 24.0	10,525 22.6	11.058 26.0	11.993 25.7	12.761 27.1	13,186 24.4	10.899
Production (1,000 tons) Per capita consumpt. (ibs.) 2/	14,658	14,168 63.6	14.301 67.5	14,191	13,874 69.5	18,011 75.1	15,303 71.9	15.7 0 3 72.2	14,629
, , , , , , , , , , , , , , , , , , , ,					1990				
	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
F.o.b. shipping point prices Apples (\$/carton) 4/ Pears (\$/box) 5/	11.00 14.00	11,00 14.00	11.28 15.88	13.85	19.88	11.96	12.16	13.00 12.58	13.08 13.00
Grower prices Oranges (\$/box) 6/ Grapefruit (\$/box) 6/	7.20 7.57	7.84 7.82	7.15 8.74	6.02 6.35	5.07 6 44	5.31 7.22	4.48 6.51	6.31 5.53	6,18 5.63
Stocks, ending Fresh appies (mil. lbs.) Fresh pears (mil. lbs.) Frozen truits (mil. lbs.)	1,004.3 63.0 591.0	589.8 26.9 583.7	283 9 2.3 653.2	118.9 33.8 790.8	8.8 199.8 859.5	3,005 578 0 864.5	4,590.0 449.6 912.7	4.003.7 322.6 864.5	3,358, 3 267 0 818,6
Frozen orange juice (mil. lbs.)	1,170.0	1,586.2	1,074.8	1,008.1	808.4	797.1	802.0	871.3	1.033.9

^{1/ 1990} indicated 1989/90 season. 2/ Fresh per capita consumption. 3/ Calendar year. 4/ Red delicious, Washington, extra fancy, carton try pack. 125's. 5/ D'Anjou, Washington, standard box wrapped, U.S. no. 1, 135's. 5/ U.S. equivalent on-tree returns. P = preliminary. — = not svallable.

Table 24.—Vegetables_

					Cale	ndar year				
Production Total vegetables (1,000 cwt) Frash (1,000 cwt) 1/3/ Processed (tons) 2/3/ Mushrooms (1,000 lbs.) Potates (1,000 cwt) Sweetpotates (1,000 cwt) Ory edible beans (1,000 cwt)	1981 392,343 183,456 10,444,330 817,146 340,623 12,799 32,751	1982 430,795 193,451 11,887,170 490,826 355,131 14,833 25,563	1983 403.509 185.782 10.886.350 561.531 333,726 12,083 15.520	1984 456.334 201,817 12,725,880 595,681 382,039 12,902 21,070	1985 453,030 203,549 12,474,040 587,956 406,809 14,573 22,175	1986 448,829 203,165 12,273,200 614,393 361,743 12,388 22,886	1987 476,381 220,539 12,892,100 631,819 389,320 11,611 26,031	1988 468,779 228,397 12,019,110 667,759 356,438 10,945 19,253	1989 542,437 239,281 15,157,790 715,010 370,444 11,358 23,729	1990 P 557,088 234,506 16,129,080 393,857 13,020 32,429
						1990				
Maria de la compansión de	Mar	Apr	Мау	June	July	Aug	Sept	Oct	Nov	Dea
Shipmenta Fresh (1,000 cwt) 4/ Potatoss (1,000 cwt) Sweetpotatoes (1,000 cwt)	19,860 12,095 251	22,4 76 12,809 331	35.292 16.062 268	30.291 19,136 167	21,826 8,255 109	22,032 10,029 101	14.898 8.959 302	20,451 11,947 582	17.623 11.405 929	17.112 10.434 545

^{1/} Includes fresh production of asparagus, broccoli, carrots, cauliflower, celery, sweet corn, lettuce, honeydews, onlons, & tomatoes. 2/ Includes processing production of snap beans, sweet corn, green peas, tomatoes, cucumbers (for pickles), esparagus, broccoli, carrots, & cauliflower. 3/ Asparagus & cucumber estimates were not available for 1982 & 1983. 4/ Includes snap beans, broccoli, cabbage, carrots, cauliflower, celery, sweet corn, cucumbers, eggplant, lettuce, onlons, bell peppers, equash, tomatoes, cantaloupes, honeydews, & wetermelons. — = not available.

Information contacts: Gary Lucier or Cathy Greene (202) 219-0884.

Table 25.—Other Commodities _

	Annual			1989				1990		
	1986	1987	1988	1989	1990	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
Sugar Production 1/ Deliverles 1/ Stocks, ending 1/ Coffee	6.257 7.766 3.225	7,309 8,167 3,195	7,087 8,188 3,132	6.840 8.309 2,946	6,319 8,631 2,642	3,709 2,190 2,933	1.671 1.668 3,112	572 2,048 2,165	652 2,308 1,210	3,424 2,307 2,642
Composite green price N.Y. (cts./ib.)	185.18	109.14	115.59	95.17		63.70	73.22	79.55	79.10	76.65
Importe, green bean equiv: (mil. lbe.) 2/	2,596	2,638	2,072	2,630		725	866	702	530	776
		Annual		1989				1990		
Tobacco	1987	1988	1989	June	Jan	Feb	Mar	Apr-	Мау	June
Prices at suctions 3/ Flue-cured (\$/lb.) Burrey (\$/lb.)	1.59 1.56	1.61 1.61	=	**************************************	1.68	1.67	-		Ξ	Ξ
Domestic consumption 4/ Cigarettes (bil.) Large cigare (mil.)	575.0 2,728	582.5 2,631	540.1 2,467.6	26.8 158.5	38.4 165.5	41,1 164,3	48.5 198.5	45.3 174.2	47.2 205.0	45.9 221.6

^{1/1,000} short tone, raw value. Quarterly data shown at end of each quarter. 2/ Net Imports of green & processed coffee. 3/ Crop year July-June for flue-cured. Oct.-Sept. for burley. 4/ Taxable removals. — = not available.

Information contact. Wynnice Napper (202) 219-0884.

Information contacts: eugar, Peter Buzzanell (202) 219-0886, coffee, Fred Gray (202) 219-0888, tobacco, Verner Grise (202) 219-0890.

World Agriculture

Table 26.—World Supply & Utilization of Major Crops, Livestock, & Products

	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90 P	1990/91 F
				Million Units			
Wheat Area (hectares)	231.2	229.6	228.2	220.0	240.0	0057	
Production (metric tons)	511.9	500.1	530.7	502.3	218.0 500.4	225.6 536.8	230.8 589.0
Exporte (metric tone) 1/	107.0	85.0	90.7	105.0	96.8	96.1	93.9
Consumption (metric tons) 2/	493.0	496.2	522.5	530.2	531.9	534.7	562.9
Ending stocks (metric tons) 3/	164.4	168.2	176.4	148.5	117.0	119.1	145.3
Coarse grains	204.0						
Area (hectares) Production (metric tons)	334.6 815.8	341.3	336.5	324.3	325.9	322.0	321.5
Exports (metric tone) 1/	100.4	843.1 83.2	831.8	793.9	731.2	803.5	825.8
Consumption (metric tone) 2/	782.6	778.8	83.3 806.0	83.2 814.9	94.6 796.5	99.5	85.4
Ending stocks (metric tons) 3/	143.9	208.2	234.0	213.0	147.7	828.2 123.0	827.8 121.0
Rice, milled							
Area (hectares)	144.2	144.9	145.2	141,5	145.5	148.8	148.4
Production (metric tone)	318.9	318.9	318.7	314.0	330.8	344.5	349.9
Exports (metric tone) 4/	11.3	12.6	12.9	11.9	15.1	12.2	12.5
Consumption (metric tons) 2/	310.2	319.4	322.7	319.8	326.8	337.6	346.4
Ending stocks (metric tons) 3/	56.0	55.4	51.4	45.8	47.6	54.5	58.0
Total grains							
Area (hectares)	710.0	715.8	709.9	685.8	689.4	694.4	698.7
Production (metric tone) Exports (metric tone) 1/	1,848.6 218.7	1,662.1	1,681.2	1,610.2	1,562.4	1,684.8	1,764.7
Consumption (metric tons) 2/	1,585.8	180.8 1,594.4	186.9 1.651.2	200.1	208.4	207.8	191.8
Ending stocks (metric tone) 3/	364.3	431.8	461.8	1,864.9 407.1	1.657.2 312.3	1,700.5 298.6	1,737.1 324.3
Oilseeds							
Crueh (metric tone)	150.7	155.1	181,4	167.7	186.1	173.1	177.3
Production (metric tone)	191.1	196.2	194.4	209.5	203.6	213.9	217.0
Exporte (metric tons)	33.1	34.5	37.7	39.5	32.0	35.7	34.1
Ending stocks (metric tons)	21.1	26.8	23.3	24.0	22.2	23.2	23.1
Meale							
Production (metric tone)	101,8	105.0	110.5	115.1	112.1	117.7	120.0
Exports (metric tons)	32.3	34.4	36.7	36.2	38.2	38.3	38.8
Oils Production (metric tons)	45.0	40.4					
Exports (metric tons)	45.2 15.6	49.4 16.4	50.3 16.9	53.2	53.7	57.3	58.3
	13.5	10.4	10.0	17.7	18.4	19.6	19 0
Cotton Area (hactarea)	34.0	31.7	29.6	31,1	22.5	20.0	
Production (bales)	89.0	80.8	70.9	81.2	33.8 84.7	32.0 80.0	33.6
Exports (bales)	20.2	20.3	26.0	23.3	26.1	24.0	66.1 24.1
Consumption (bales)	70.2	77.3	82.8	84.5	85.6	87.3	86.8
Ending stocks (bales)	43.0	47.0	34.7	31.8	30.2	23.8	22.7
	1985	1986	1987	1988	1989	1990 P	1991 F
Red meat							-
Production (metric tone)	103.€	106.5	109,6	113,4	115.2	114.4	116.1
Consumption (metric tons)	101 5	105.4	107.9	111.7	113.8	113.8	115.0
Exports (metric tons) 1/	6.3	6.7	8.6	8.9	7.2	8.5	8.9
Poultry 5/							
Production (metric tone)	26.2	29.3	31.3	32.9	34.1	35.7	37.2
Consumption (metric tons)	25.8	28.9	30.8	32.5	33.8	35.2	38.8
Exports (metric tons) 1/	1.2	1.2	1,5	1.7	1.8	2.0	2.1
Dairy Milk graduation (matrix tons)	440.4						
Milk production (metric tons)	413.4	425.9	425.9	429.1	434.8	441.1	443.4

^{1/} Excludes intra-EC trade. 2/ Where stocks data not available (excluding USSR), consumption includes stock changes. 3/ Stocks data are based on differing marketing years & do not represent levels at a given date. Data not available for all countries; includes estimated change in USSR grain stocks but not absolute level. 4/ Calendar year data. 1985 data correspond with 1984/85, etc. 5/ Poultry excludes the Peoples Republic of China before 1986.

P = preliminary. F = forecast.

Information contacts: Crops, Frederic Suris (202) 219-0313; red meat & poultry, Linda Bailey (202) 219-1285; dairy, Sara Short (202) 219-0770.

U.S. Agricultural Trade

Table 27.—Prices of Principal U.S. Agricultural Trade Products

		Annual		1989				1990		
	1988	1989	1990	Dec	July	Aug	Sept	Oct	Nov	Dec
Export commodities	3.97	4.65	3.72	4.62	3.41	3.21	3.14	3.18	3.09	3.10
Wheat, f.o.b. vessel, Gulf ports (\$/bu.) Corn. f.o.b. vessel, Gulf ports (\$/bu.)	2.73	2.85	2.79	2.79	2.93	2.80	2.60	2.55	2.56	2.63
Grain sorghum, f.o.b. vessel,	2.70	2.00	2	2.70	2.00	2.00				
Gulf ports (\$/bu.)	2.52	2.70	2.65	2.65	2.79	2.67	2.52	2 50	2.51	2.60
Soybeans, f.o.b. vessel, Gulf ports (\$/bu.)	7.81	7.06	6.24	8.22	6.32	8.42	6.45	6.33	8.09	6.13
Soybean oil, Decatur (cts./lb.)	23 52	20.21	22.75	19.10	24.54	24.78 171.09	23.89 175.79	22.09 172.49	20.75 163.81	21.26 164.79
Soybean meal, Decatur (\$/ton)	234.75	218.59	169.37	179.82	171.30	171.09	175.79	172.48	103.61	104.70
Cotton, 8-market avg. spot (cts./lb.)	57.25	63.78	71,25	63.56	79.53	78 27	71.01	70.54	69.48	69 92
Tobacco, avg. price at auction (cts./lb.)	153.61	151.50	164.61	161.00	161.00	159.51	170.20	168.82	169.86	170.09
Rice, f.c.b. mill, Houston (\$/cwt)	19,60	15.68	15.52	15.67	18.25	15.81	14.50	14.50	14.50	14.50
Inedible fallow, Chicago (cts./lb.)	18.64	14.71	13.54	14.25	13.50	10.12	12.00	13.25	14.09	14.25
Import commodities								_		
Coffee, N.Y. spot (\$/lb.)	1.21	1.04	0.81	0.70	0.75	0.81	0.87	0.85	0.80	0.82
Rubber, N.Y. spot (cts/lb.)	59.20	50.65	46.28	44.82	45.80	47.46	48.43	46.50	46.28	47.03 0,56
Cocos beans, N.Y. (\$/lb.)	0.09	0.55	0.55	0.42	0.58	0.55	0.59	0.57	0.58	0.00

Information contact: Mary Teymourian (202) 219-0824.

Table 28.—Indexes of Real Trade-Weighted Dollar Exchange Rates¹

		1990									
	Mar	Apr	May P	June P	July P	Aug P	Sept P	Oct P	Nov P	Dec P	Jan P
					1	985 = 1 00					
Total U.S. trade 2/	68.6	67.9	8.86	87.3	65.5	83.4	63.1	81.2	60.4	61.2	60.3
Agricultural trade U.S. markets U.S. competitors	79.3 79.6	79.4 79.2	78.5 77.8	78.9 77.5	79.2 76.4	79.1 78.1	78.5 78.3	76.6 76.0	76.1 75.9	77.0 76.3	76.6 78.3
Wheat U.S. markets U.S. competitors	89.1 80.6	89.9 78.4	89.6 78.4	90.3 75.6	93.5 73.4	96.4 72.5	96.2 72.8	94.5 72.7	94.3 73.2	95.3 73.6	98.1 73.4
Soybeane U.S. markete U.S. competitore	70.6 77.3	70.4 75.8	69.4 69.2	69.7 66.9	68.3 63.9	66.9 64.3	66.1 64.7	64.1 64.9	63.4 65.1	64.4 65.3	63.5 65.5
U.S. markete U.S. competitore	74.3 85.6	74.8 81.6	73.3 75.8	73.8 74.5	74. 8 71.1	73. 7 70.2	72.2 70.4	69.9 69.7	69.5 69.4	70. 7 70. 3	69.9 70.0
Cotton U.S. merkets U.S. competitors	77.7 83.7	78.0 83.6	78.8 83.0	77.4 81.5	76.4 88.3	75.9 89.9	74.8 89.2	73.2 88.1	73.0 88.2	74.2 85.3	73.7 85.0

^{1/} Real indexes adjust nominal exchange rates for differences in rates of inflation, to evoid the distortion caused by high-inflation countries. A higher value means the dollar has appreciated. See the October 1988 issue of Agricultural Outlook for a discussion of the calculations and the weights used. 2/ Federal Reserve Board Index of trade-weighted value of the U.S. dollar against 10 major currencies. Weights are based on relative importance in world financial markets P = preliminary.

Information contact: Tim Baxter, David Stallings (202) 219-0718.

Table 29.—Trade Balance

					Fiecal year 1	/			Nov
	1984	1985	1986	1987	1988	1989	1990	1991 F	1990
					\$ million	1			
rte cultural	38,027	31,201	28,312	27,876	35,318	39,637	40.182	38,500	3,500
agricultural ts! 2/	170,014 208,041	179.238 210,437	179.291 205,603	202,911 230,787	258.656 293, 9 72	301,222 340,859	325,928 386,110		28,172 31,672
rts Cultural	18.916	19,740	20.884	20,650	21,014	21,477	22,514	22,000	1,901
agricultural ai 3/	297,736 318,652	313,722 333,482	342,846 363,730	387.374 388.024	409,138 430,152	441.074 482,551	458,147 480,661	=	41,872 43,573
balance								40.000	
ultural gricultur ul	19,111 -127,722	11,481 -134,488	5,428 -163,555	7.228 -1 64 ,463	14,302 -150,482	18,1 60 -139,852	17,668 -132,219	18,500	1,599 -13,500
Jiloona.a.	-108.611	-123,025	-158.127	-157,237	-136,180	-121.692	-114,551	-	-11,901

^{1/} Fiscal years begin October 1 & end September 30. Fiscal year 1990 began Oct, 1, 1989 & ended Sept. 30, 1990. 2/ Domestic exports including Department of Defence chipments (F.A.S. value). 3/ Imports for consumption (customs value). F = forecast. — = not available.

Information contact: Stephen MacDonald (202) 219-0822.

Table 30.—U.S. Agricultural Exports & Imports

	,	Fiscal ye	ar*	Nov		Fiscal y	ear*	Nov
	1989	1990 F	1991 F	1990	1989	1990 F	1991 F	1990
EXPORTS			1,000 unite				\$ million	
Animals, live (no.) 1/	758	685	_	65	475	381	_	26
Meats & preps., excl. poultry (mt) Dairy products (mt) 1/	869 192	878 92	2/ 700	81	2.355 475	2,457 348	500	245 19
Poultry meats (ml)	428	567	600	52	510	631		58
Fats, oils, & greases (mt)	1.377	1.264	1,200	96	531	450	_	33
Hides & skins incl. furskins Cattle hides, whole (no.) 1/	28,260	24.777	_	2,070	1,713	1,798 1,365	_	135 111
Mink pelts (no.) 1/	3,073	5,128	_	56	91	116	_	1
Grains & feeds (mt) Wheat (mt)	114, 692 37,641	112.987 27,999	27,500	8.477 2.103	16.829 6,004	15.094	3/13,800 4/3,300	1,070 235
Wheat flour (mt)	1,178	882	1,200	89	255	203	_	14
Rice (mt) Feed grains, incl. products (mt)	3.041 60,958	2,501 69,510	2.400 59.800	263 5.009	955 7,374	829 8,093	800 7,000	73 535
Feeds & fodders (mt) Other grain products (mt)	11.088 790	11,125 970	5/11,900	957 76	1,849 514	1,82 6 665	=	158 54
Fruits, nuts, & preps. (mt)	2.555	2,873	_	296	2,394	2.789	_	296
Fruit juices Incl. froz. (1,000 hectoliters) 1/	4,997	5.975		486	264	328		26
Vegetables & preps. (mil)	1,665	2,243	_	279	1.542	2,079	_	250
Tobacco, unmanufactured (mt) Cotton, excl. linters (mt)	212 1,441	220 1.668	200 1, 600	28 156	1,274 2,040	1,373 2,704	1,400 2,700	181 269
Seeds (mt)	511	576		28	507	576	600	56
Sugar, cane or beet (mt)	388	447	_	61	134	187	_	23
Oilseeds & products (mt) Oilseeds (mt)	21.052 14,592	23.772 17,703	\equiv	2,31 5 1.748	6,629 4,363	6,098 4,246	6,200	578 42 6
Soybeans (mt) Protein meal (mt)	14.093 4,963	17.217 4,767	16,600	1,708 500	4,085 1,358	3,939 1,022	3,900	399 102
Vegetable oils (mt)	1,498	1,302	_	66	908	830		49
Other (mt)	13 106	14 89	=	11	171 1.802	182 2,120		12 221
Total	145,481	147.686	139.500	11.880	39,637	40,182	38.500	3.500
IMPORTS								
Animals, live (no.) 1/	2.485	2,940		337	740	1,053	1.100	124
Meats & preps., excl. poultry (mt) Beef & veal (mt)	1,091 668	1,142 754	750	98 64	2.432 1.525	2,848 1.842	1.800	251 158
Pork (mt)	371	340	370	29	778	888	900	82
Dairy products (mt) 1/ Poultry & products 1/	211	254		22	834 130	951 129	900	85 11
Fats, oils, & greases (mt)	14	19	_	2	14	15		2
Hides & skins, incl. furskins 1/ Wool, unmanufactured (mt)	82	47		5	241 319	135 187	=	7 18
Grains & leeds (mt)	3,467	3,471	3,450	343	1.139	1,181	1,000	117
Fruits, nuts, & preps., excl. juices (mt)	5,038	5,331	5.050	374	2,269	2.486	_	194
Bananas & plantains (mt) Fruit julces (1,000 hectoliters) 1/	3,039 27,747	3,236 33,922	3,200 30,000	256 2,432	851 792	926 1,001	900	73 81
			000,00				2 000	
Vegetables & preps. (mt) Tobacco, unmanufactured (mt)	2,217 1 89	2,242 193	180	147 13	1.959 521	2,2 6 4 588	2,000	150 43
Cotton, unmanufactured (mt) Seeds (mt)	13 158	30 171	170	1 6	8 187	20 164	200	1 12
Nursery stock & cut flowers 1/ Sugar, cane or beet (mt)	1,657	1.769	=	100	468 620	519 734		81 70
				162	946	964	1,000	78
Oilseeds & products (mt) Oilseeds (mt)	1.917 424	2.034 534	=	44	159	206	_	15
Protein meal (mt) Vegetable oils (mt)	35 9 1,133	310 1,189		36 82	65 721	48 710	_	5 55
Beverages excl. fruit								
juices (1,000 hectoliters) 1/ Coffee, tea. cocoa, spices	13,967 1,867	13,543	3,200	1,248 135	1,815 3,896	1.867 3.465	_	214 231
Coffee, Inci, products (mt)	1.084	1.290	1,300	71	2,467	1,997	2,000	115
Cocoa beane & products (mt)	584	698	670	47	969	1,042	1,000	81
Rubber & allied gums (mt) Other	927	840	8 <u>50</u>	82	1,051 1,097	712 1,229	700	69 105
Total					21,477	22.514	22,000	1,901

^{*}Flecal years begin Oct, 1 & end Sept. 30. Flacal year 1990 began Oct. 1, 1989 & ended Sept. 30, 1990. 1/ Not included in total volume and also other dairy products for 1989 & 1990. 2/ Forecasts for footnoted items 2/-6/ are based on slightly different groups of commodities. Flacal 1990 exports of categories used in the 1991 forecasts were 2/ 676,000 m , tons, 3/ 18,014 million. 4/ 4,426 million i.e. includes flour. 5/ 11,065 million m, tons. F = forecast, — = not available.

Information contact: Stephen MacDonald (202) 219-0822.

Table 31.—U.\$. Agricultural Exports by Region

		Fiscal year		Nov	Char	nge from yea	r" earlier	Nov
	1989	1990 F	1991 F	1990	1989	1990 F	1991 F	1990
		\$	million			1	Percent	
WESTERN EUROPE European Community (EC-12) Belgium-Luxembourg France Germany, Fed. Rep. Italy	7,074 6,565 431 474 918 609	7.331 6,838 431 469 1,096 704	7,300 6,800 — —	754 709 55 64 114 68	-12 -12 1 -16 -28 -15	4 4 0 -1 19 16	00	-3 -4 -22 93 -30 -20
Natherlands United Kingdom Portugal Spain, Incl. Canary Islands	1,847 736 307 876	1,637 761 338 991	=	199 68 29 90	-12 -10 -10 3	-11 3 10 13	=	25 -8 18 13
Other Western Europe Switzerland	510 166	493 171	500	45 14	-2 -14	-3 3	_ 0	-9
EASTERN EUROPE German Dem. Rep. Poland Yugoslavia Romania	422 72 45 76 62	533 58 101 129 210	500	62 0 11 22 10	-24 6 -73 -26 -33	28 -20 127 - 69 239	<u> </u>	209 -100 80 1,434 122
USSR	3.299	3,989	2.000	77	70	-9	-33	-80
ASIA "West Asia (Mideast) Turkey Iraq Israel, incl. Gaza & W. Bank Saudi Arabia	18.677 2,273 238 791 331 482	18,131 -1,995 259 497 285 502	17.400 2,000 0	1,572 137 24 0 22 56	17 19 97 8 -1	-3 -12 9 -37 -14 4	-100 -20	-5 -18 -10 -100 -11 38
South Asia Bangladesh India Pakistan China Japan	1,161 213 243 599 1,496 6,148	729 125 115 391 909 8.106	300 600 8,100	35 1 5 20 37 748	44 98 -31 117 144 12	-37 -41 -53 -35 -39 -1	-25 -33 0	-44 -70 -54 -47 -28 -3
Southeast Asia Indonesia Philippines	976 216 344	1,184 277 351	400	106 22 22	-4 -9 0	21 28 2	-	-11 -30 -45
Other East Asia Taiwan Korea, Rep. Hong Kong	4.623 1,594 2,453 575	5.20 7 1, 8 18 2,703 685	4,000 1,600 2,600 700	510 180 268 61	7 1 9 18	13 14 10 19	-8 -11 -4 0	5 -4 13 1
AFRICA North Africa Morocco Algeria Egypt Sub-Sahara Nigeria Rep. S. Africa	2.280 1.796 216 549 965 483 30 57	2,009 1,524 166 488 761 484 32 81	1,800 1,400 	200 166 10 62 89 35 6	0 8 12 2 21 -21 -31 -34	-12 -15 -23 -11 -20 0 7 43	-10 -7 -7 20 0	15 16 -53 84 3 8 75 -2
LATIN AMERICA & CARIBBEAN Brazil Caribbean Islands Central America Colombia Mexico Peru Venezuela	5,437 149 1,007 448 139 2,755 81 587	5,156 105 1,006 484 147 2,666 187 345	5,300 100 — 2,800 400	444 35 104 29 8 208 11 30	24 -15 18 8 -22 60 -54 -2	-5 -30 0 4 6 -3 132	2 0 4 33	-2 173 17 -39 -59 -3 -68 40
CANADA	2,179	3.716	4,000	353	10	71	8	117
OCEANIA Total	268 39.637	317 40,182	300 38,500	38 3,500	13 12	18	, -4	38 -4
Developed countries	17,997	19,780	20,100	1,915	1	10	8	9
Less developed countries	16,423	15.970	15,300	1,410	14	-3	-4	-2
Centrally planned countries	5.217	4,431	3.100	176	68	-15	-30	-62

[&]quot;Fiscal years begin Oct. 1 & end Sept. 30, Fiscal year 1990 began Oct. 1, 1989 & ended Sept. 30, 1990. F = forecast. — = not available. Note: Adjusted for transshipments through Canada.

Information contact: Stephen MacDonald (202) 219-0822.

Farm Income

Table 32.—Farm Income Statistics

	Calendar year										
	1981	1982	1983	1984	°1985	1986	1987	1988	1989	1990 F	1991 F
						\$ billion					
Farm receipts Crops (Incl. net CCC loans) Livestock Farm related 1/	144.1 72.5 69.2 2.5	147.2 72.3 70.3 4.8	141.3 67.2 69.6 4.5	147.1 60.9 72.9 4.3	149.4 74.3 69.8 5.3	140,2 63.7 71.5 5.0	147.5 66.6 76.0 5.9	155.9 71.4 78.8 5.7	166.5 75.4 83.7 7.4	174 77 91 6	177 to 182 78 to 82 89 to 93 6 to 7
Direct Government payments Cash payments Value of PIK commoditic	1.9 1.9 0.0	3.5 3.5 0.0	9.3 4.1 5.2	8.4 4.0 4.5	7.7 7.6 0.1	11.8 8.1 3.7	18.7 6.6 10.1	14.5 7.1 7.4	10.9 9.1 1.7	9	8 to 9 7 to 8 0 to 1
3. Total gross farm income (4+5+6) 2/ 4. Gross cash income (1+2) 5. Nonmoney income 3/ 6. Value of inventory change	166.3 146.0 13.8 6.5	163.5 160.6 14.3 -1.4	153:2 150:8 13:5 -10:9	170.2 155.5 8.7 6.0	162.9 157,2 8.0 -2.3	156.5 152.0 6.9 -2.4	169.0 164.3 7.5 -2.8	173.8 170.4 7.5 -4.1	189.2 177.5 7.3 4.4	193 184 8 3	195 to 200 185 to 190 7 to 8 1 to 4
7. Cash expenses 4/ 8. Total expenses	113.2 139.4	112.8 140.0	111.0 137. 9	119.0 143.8	109.3 131.9	105.2 125.5	108.2 127.7	112.3 132.1	122.8 142.6	125 145	127 to 133 149 to 154
9. Net cash income (4~7) 10. Net farm income (3~8) Deflated (19823)	32.8 28.9 28.8	37.9 23.5 23.5	39.5 15.3 14.7	36.6 26.3 24.5	47.9 31.0 27.9	46.7 31.0 27.3	58.1 41.3 35.2	58.1 41.8 34.4	54.6 46.7 38.9	59 49 37	55 to 60 44 to 49 31 to 35
11. Off-farm Income	35.8	36.4	37.0	39.2	55.2	54.5	58.9	57.7	67.5		_
12. Loan changes 5/: Real estate 13. 5/: Non-real estate	9.0 6.5	3.8 3.4	2.3 0.9	-2.0 -0.8	-8.4 -9.6	-8.7 -11.0	-7.7 -4.6	-4.1 -0.3	-2.1 0.1	=	=
14. Rental income plus monetary change, 15. Capital expenditures 6/	6.4 16.8	6.4 13.3	5.4 12.7	9.2 12.5	9.1 9.2	8.0 8.5	6.8 11.1	7.5 11.1	8.2 13.0	Ξ	
16. Net ceeh flow (9+12+13+14-15)	37.8	38.2	35.3	30.4	31.9	26.6	39.5	50,2	48.0	_	_

^{1/} income from machine hire, custom work, sales of forest products. & other miscellaneous cash sources. 2/ Numbers in parentheses indicate the combination of items required to calculate a given item. 3/ Value of home consumption of self-produced food & imputed gross rental value of farm dwellings. 4/ Excludes capital consumption, periquisities to hired labor, & farm household expenses. 5/ Excludes farm households. Total may not add because of rounding. F = forecast. — = not evaliable.

Information contact: Diana Sertelean (202) 219-0809.

Table 33.—Balance Sheet of the U.S. Farming Sector_

					Calendo	ar year 1/						
	1961	1982	1983	1984	1985	1986	1987	1988	1989	1990 F	1	991 F
						\$ billion						
Assets						4 01111011						
Real estate	784.7	748.8	758.2	610.3	540.B	507.3	525.4	555.4	577.6	595	800	to 610
Non-real estate	197.7	196.4	191.9	196.9	187.5	182.8	193 7	208.1	216.3	223	220	
Livestock & poultry	53. 5	53.0	49.5	49.5	46 3	47.8	58.0	65.5	69.7	74	74	to 78
Machinery & motor												
vehicles .	87.0	87.5	87.4	86.0	83.6	81.9	79.4	80.6	83.8	8.6	85	10 89
Crops stored 2/	29 0	26.1	24.0	26.2	22.9	16.7	18.0	23.0	23.5	23	21	to 25
Purchased Inputs		_		2.6	13	2.0	3.3	3.4	2.8	3	2	to 4
Financial essets	28.2	29.7	30.9	32.6	33.3	34.5	35.1	35.4	36.6	38	36	to 40
Total farm assets	982 4	945.2	950.1	807,2	728.3	690.1	719.1	763.5	793.9	818	825	to 838
Liabilities												
Real estate debt 3/	98.7	102.5	104.8	102.8	96.4	87.7	79.9	75.8	73.8	72	70	to 74
Non-real estate debt 4/	83.6	87.0	87.9	87.1	77.5	66.6	62.0	61.7	61.8	62	60	to 64
Total farm debt	182.3	189.5	192.7	189.9	173.9	154.2	142.0	137.6	135.6	134	131	to 137
Total farm equity	800.1	755.7	757.4	617.4	554.3	535.9	577.2	625.9	658.3	684	695	
						Percent						
Selected ratios												
Debt-to-assets	18.6	20.0	20.3	23.5	23 9	22.4	19.7	18.0	17.1	16	16	to 17
Debt-to-equity	22 6	25.1	25.4	30.8	31.4	28.8	24.6	22.0	20,6	20	19	to 20
Debt-to-net cash income	558	500	488	519	363	330	253	237	248	228	230	10 240

^{1/} As of Dec. 31, 2/ Non-CCC crops held on farms plus value above loan rates for crops held under CCC. 3/ Excludes debt on operator dwellings, but includes CCC storage and drying facilities loans. 4/ Excludes debt for nonfarm purposes. F = forecast.

Information contacte: Ken Erickeon or Jim Ryan (202) 219-0798.

Table 34.—Cash Receipts From Farm Marketings, by State _

	Livestock & products					c	rops 1/			т	otal 1/	
Region & State	1988	1989	Oct 1990	Nov 1990	1988	1989 \$ mi	Oct 1990	Nov 1990	1988	1989	Oct 1990	Nov 1990
NORTH ATLANTIC Maine New Hampshire Vermont Massachusette	217 50 351 105	215 63 375 112	17 5 32 9	17 5 29	197 77 51 305	233 79 51 317	16 6 3 30	26 5 4 42	414 136 401 410	447 142 426 429	35 11 35 39	43 11 33 5 1
Rhode letand Connecticut New York New Jersey Pennsylvania	13 183 1.603 193 2,332	13 168 1,946 197 2,595	1 16 166 17 226	1 17 157 17 206	86 214 865 452 984	218 911 463 988	4 17 92 41 92	4 16 81 42 108	79 398 2,668 645 3,296	79 404 2.857 660 3.581	33 257 58 318	5 -33 239 59 -313
NORTH CENTRAL Ohio Indiana Illinola Michigan	1.584 1,716 2,255 1,205	1, 6 98 1,817 2,252 1,313	171 184 213 123	160 191 212 112	1,980 2,320 3,927 1,535	2.114 2.502 4.458 1,627	438 635 1,002 208	304 195 526 247	3,564 4,036 6,162 2,739	3,812 4,318 6,710 2,940	810 819 1.216 331	463 387 738 358
Wieconsin Minnesota Iowa Missouri	4,215 3,418 4,988 2,012	4.337 3,716 5.209 2,168	342 369 576 219	327 357 587 270	764 2.649 3,767 1,746	941 2.809 3,911 1,732	133 384 796 293	147 365 518 190	4.980 6,067 6,775 3,758	5,278 6,526 9,119 3,900	477 753 1,372 512	474 722 1,103 460
North Dakota South Dakota Nebraska Kansas	851 2,050 5,390 4,124	642 2.108 5.643 4.245	108 280 523 377	99 271 567 342	1,507 895 2,409 2,195	1,465 884 2,878 2,079	205 226 436 317	257 104 473 236	2,358 2,945 7,800 6,320	2,108 2,992 6,521 6,324	311 506 959 693	356 375 1,040 579
SOUTHERN Detaware Maryland Virginia West Virginia	444 768 1,300 218	503 870 1.372 250	35 58 173 29	31 57 144 24	152 457 614 68	160 476 685 64	39 77 165 5	21 66 79 7	595 1.224 1.914 288	663 1,346 2,058 314	75 135 342 34	52 123 225 32
North Carolina South Carolina Georgia Florida Fentucky Tennessee	2.188 490 2.016 1,132 1.530 1,056	2,505 551 2,270 1,221 1,670 1,060	230 55 1 69 117 136 105	233 53 154 113 280 97	1.850 616 1.554 4,688 980 877	2,046 675 1,596 4,982 1,258 861	487 81 272 168 74 125	179 51 130 226 336 169	4,038 1,100 3,570 5,820 2,510 1,933	4.551 1.225 3.669 6.203 2,926 1.921	744 135 443 287 210 228	415 104 284 340 628 287
Alabama Mississippi Arkansas Louisiana Oklahoma Texas	1.695 1.172 2.280 582 2.243 6,562	1,932 1,292 2,661 614 2,409 6,863	153 110 219 57 331 691	132 88 191 52 222 872	726 1.133 1.552 1,295 1,112 3,689	1,000 1,470 1,048 1,185 3,897	111 209 347 240 120 454	80 240 378 252 98 481	2.422 2.305 3.831 1.876 3.354 10.251	2,628 2,292 4,131 1,861 3,594 10,760	265 318 566 297 445 1,150	212 329 568 304 318 1,158
WESTERN Montana Idaho Wyoming Colorado	816 1.039 584 2.668	,899 1,046 689 2,849	187 98 151 284	183 95 123 268	617 1.285 177 1,034	710 1,670 188 1,250	80 254 10 111	90 233 46 187	1,433 2,324 761 3,700	1.610 2,715 656 3.899	227 352 162 396	273 329 169 435
New Mexico Arizona Utah Nevada	909 792 528 159	974 744 574 141	149 74 60 15	181 54 62	37 5 1,177 173 79	450 1.158 174 94	50 57 17 9	54 98 13 11	1,283 1,989 701 238	1,424 1,902 748 235	198 131 78 24	235 150 74 20
Washington Oregon California Alaska Hawaii	1,140 673 4,682 10 89	1.201 739 5,093 9	108 84 437	97 88 396 1	2,196 1,508 11,970 20 490	2.438 1,558 12,422 20 495	293 218 1,649 2 45	252 176 1.586 2 43	3,336 2,182 16,652 30 579	3,639 2,297 17,515 29 587	407 302 2,075 3 53	353 264 1,985 3 51
UNITED STATES	78.821	83,724	8,278	8,063	71.372	75,449	11,125	9.468	150.192	159,173	19,401	17,531

^{1/} Sales of farm products include receipts from commodities placed under CCC loans minus value of redemptions during the period. 2/ Estimates as of end of current month. Totals may not add because of rounding.

Information contact: Roger Strickland (202) 219-0806.

Table 35.—Cash Receipts From Farming

		Annual					1989		1990			
	1984	1985	1985	1987	1988	1989	Nov	July	Aug	Sept	Oct	Nov
							\$ million					
Farm marketings & CCC loans*	142.784	144,114	135.197	141.653	150.192	150,173	16.752	12.901	13.270	14.620	19,401	17,531
Livestock & products	72.895	59.822	71.539	76.010	78.821	83,724	8.031	7,289	7,471	7,709	8,276	8,083
Atest nolmain	40,750	38,550	39.081	44,478	45,884	46.691	4.845	3.901	4,293	4,671	5,307	5,034
Dairy Products	17.931	18.066	17.724	17.727	17.841	19,401	1.780	1,816	1.758	1,861	1,583	1,494
Poultry & eggs	12.245	11,209	12,701	11,517	12.867	15.346	1,296	1,193	1,257	1,268	1,231	1.228
Other	1.908	2,008	2.034	2,288	2,429	2.386	311	379	165	209	156	309
Crops	69.889	74,293	83.658	85,643	71,372	75.449	8.720	5.612	5,799	8,911	11.125	9.468
Food grains	9.731	8.990	6,741	6,780	7,484	8.073	893	1,390	940	755	780	723
Feed crops	16,138	22.591	16.912	14.543	14,305	16,656	1.889	1,204	1,298	1,103	2.890	2.335
Cotton (lint & seed)	3.674	3.687	3,371	4.189	4.546	4,740	928	117	230	329	716	1,033
Tobacco	2.813	2.699	1,921	1,826	1,960	2.381	376	161	404	444	387	387
Oil-bearing crops	13.641	12.475	10,614	11.294	13.537	12,172	1,622	454	542	1.098	3,160	1,863
Vegetables & melona	9.152	8.572	8,849	9,889	9,754	11,340	575	788	1,044	1,266	1,163	563
Fruite & tree nuts	6,734	6.946	7.248	0,058	9,139	9.020	1.085	859	707	950	1,049	1,184
Other	8,008	8,333	9.002	10.064	10,665	11,068	1,553	639	636	966	979	1,579
Government payments	8.430	7.704	11.813	16,747	14.480	10.887	1,066	61	98	119	24	1.825
Total	151.214	151,810	147.010	168,400	164.672	170,000	17.818	12.952	13,368	14.739	19.425	19,158

^{*}Receipts from loans represent value of commodities placed under CCC loans minus value of redemptions during the month.

Information contact: Roger Strickland (202) 219-0808.

Table 36.—Farm Production Expenses.

					Cale	endar year						
	1981	1982	1983	1984	1985	1988	1987	1988	1989	1990 F	1	1991 F
						\$ million						
Feed Livestock Seed Farm-origin Inputs	20,855 8,999 3,428 33,282	18.592 9.684 3.172 31,447	20,371 8,818 2,690 31,879	20,239 9,486 3,386 33,112	17.247 9,194 3,128 29,559	17.876 9,758 3.188 30,821	17,958 11,842 3,259 33,059	20,620 12,612 3,268 36,700	22.722 12,883 3,733 39,438	22,000 13,000 4,000 40,000	21,000 13,000 3,000 38,000	to 5,000
Fertilizer Fuele & olle Electricity Pesticides Manufactured inputs	9,409 6,570 1,747 4,201 23,927	8,018 7,734 2,041 4,282 22,076	6,959 7,211 1,982 3,870 20,022	8,574 7,296 2,060 4,688 22,618	7,508 6,438 1,878 4,334 20,153	6,813 5,310 1,795 4,324 18,242	6,453 4,957 2,156 4,512 18,077	6.775 4,921 2,231 4,443 18,370	7,554 6,321 2,100 5,721 20,897	7,000 8,000 2,000 5,000 21,000	6,000 5,000 2,000 5,000 22,000	to 8,000 to 3,000 to 7,000
Short-term Interest Real estate interest 1/ Total Interest Charges	10.722 9.142 19.8 6 4	11,349 10,481 21,830	10,616 10,816 21,430	10,398 10,733 21,129	8,735 9,878 18,613	7.920 9.131 17,052	7,305 8,187 1 5 ,492	7,287 7,886 16,172	7,480 7,643 15,123	7,000 7,000 14,000	7,000 6,000 14.000	
Repair & maintenance 1/ 2/ Contract & hired labor Machine hire & custom work	7,021 8,931 1,984	6,428 10,076 2,025	6,529 9,725 2,213	6,730 9,729 2,566	6,556 9,799 2,354	6,485 9,890 2.099	6.828 10,821 2,105	6,889 11,202 2,271	7,794 11.887 2.739	8,000 12,000 3,000	8,000 12,000 2,000	to 14,000
Marketing, storage, & transportation Misc, operating expenses 1/ Other operating expenses	3.523 6,909 28,369	4,301 7,262 30,089	3.904 9.089 31,481	4,012 9,136 32,173	4,127 8.198 31,034	3,652 8,054 30,180	3,988 8,902 32,644	3,281 9,357 33,000	4,214 9,857 36,491	5.000 10.000 38.000	4,000 10,000 38,000	10 6,000 to 12,000 to 42,000
Capital consumption 1/ Taxes 1/	23. 573 4,246	24,287 4,050	23.873 4,123	21,823 4,188	19,648 4,484	17.709 4,549	16.475 4.982	16,716 5,090	17.31 0 5,328	18,000 5,000	18.000 5.000	
Net rent to nonoperator landlord Other overhead expenses	8,184 34,003	6.174 34,511	6,110 33,108	8,978 34,78 7	8,435 32,567	6.951 29,209	6,964 28,420	7,014 28,820	8,161 30,819	8,000 32,000	8,000 31,000	to 10.000 to 35,000
Total Broduction extranses	120 444	130 054	127 807	142 810	111 026	126 601	127.693	132.063	142,566	145,000	149.000	to 154.000

^{1/} includes operator dwellings. 2/ Beginning in 1982, miscellaneous operating expenses include other livestock purchases & dairy assessments. Totals may not add because of rounding. F = forecast.

Information contacts: Chris McGath (202) 219-0804, Diana Berteleen (202) 219-0809.

Table 37.—CCC Net Outlays by Commodity & Function

					Fie	cal year				
	1963	1984	1985	1986	1987	1988	1989	1990	1991 E	1992 E
COMMODITY/PROGRAM					\$ m	illon				
Feed grains	5,720	-034	4.403	10.524	12,346	8.227	2.863	2.450	2.384	2,665
Corn	814	76	483	1,185	1,203	764	467	361	298	262
Grain eorghum	268	89	336	471	394	67	45	-93	53	125
Barley	11	5	2	28	17	-2	1	-6	14	16
Oate	2	a	7	6	7	7			5	6
Corn & oat products Total feed prains	0,815	-758	5,211	12.211	13,967	9,053	3,384	2.721	2,737	3,073
TOTAL 1990 BLANIE	0.010									0.510
Wheat	3.419	2,530	4,691	3,440	2,836	678 128	53 631	800 867	2,647 818	2,519 775
Rice	864	333	990	947		866	1,481	-79	389	B23
Upland cotton	1,383	244	1,553	2.142	1,786	000	1,401	-/-	36#	043
Tobacco	880	348	455	253	-346	-453	-367	-307	-217	-85
Dairy	2.528	1,502	2,085	2,337	1,168	1,295	679	505	665	392
Soybeans	288	-685	711	1.597	-476	-1,676	-80		22	-21
Peanute	-6	1	12	32		7	13	1	3	-3
P	49	10	184	214	-65	-246	-25	16	0	-26
Sugar	48	90	81	89	73	100	42	47	46	25
Honey Wool	94	132	109	123	152	1/ 5	93	104	176	175
7700										_
Operating expense 3/	328	362	346	457	536	014	620	618	721	773
interest expenditure	3,525	1,064	1.435	1,411	1,219	425	98	632	604	480
Export programs 4/	398	743	134	102	276	200	-102	-34	1,256	1,053
1989/89 Disaster/										
Livestock Assistance	O O	0	0	0	0	0	3,919		91	0
Other	-1.542	1.295	-314	480	371	1,695	110	608	890	1,126
Total	18,851	₄ 7,315	17,683	25,841	22,408	12,481	10.523	5,471	10.844	11.079
FUNCTION										
Price-support ioans (net)	8,438	-27	6,272	13.626	12,199	4,579	-926	-399	201	458
Direct payments 5/										
Deficiency	2,780	612	6.302	5,166	4,833	3.971	5,798	4,178	5.117	6.574
Diversion	705	1,504	1,525	64	382		-1	0	0	0
Dairy termination	0	0	0	489	587	260	168	189	100	11
Other	0	0	0	27	80	0	42	3	12	12
Disaster	115	1	0	0	0	6	4	0	0	0
Total direct payments	3.800	2,117	7,827	6.748	5,862	4,245	6,011	4,370	6.229	6,597
1988/89 crop disaster	0	0		0	0	0	3,386	2/ 5	5	0
Emergency livestock/	*									
forage assistance	.0	0	0	0	0	31	533	158	86	0
Purchases (nel)	2,540	1,470	1,331	1,670	-479	-1,131	115	-48	381	512
Producer storage										
paymente	984	268	329	485	632	658	174	185	26	0
Processing, storage,										
& transportation	665	639	657	1,013	1,659	1.113	659	317	305	202
On-selling owner of	328	362	346	457	535	614	620	816	721	773
Operating expense 3/	3,525	1,064	1.435	1,411	1.219	425	98	632	804	
Interest expenditure		743	134	102	276	200	-102	-34	1.250	
Export progrems 4/	398 -1,607	679	-648	329	305	1.727	-48	669	1,030	
						44		4.474	10.0	11 67
Total	18.851	7,315	17,683	25.841	22,408	12,461	10.523	6,471	10.844	11,076

1/ Flecal 1988 wool & mohair program outlays were \$130,635,000 but include a one-time advance appropriation of \$126,108,000, which was recorded as a wool program receipt by Treasury. 2/ Approximately \$1.5 billion in benefits to farmers under the Disaster Assistance Act of 1989 were paid in generic certificates & were not recorded directly as disaster essistance outlays. 3/ Does not include CCC Transfers to General Sales Manager #/ includes Export Guarantee Program. Export Guarantee Program—Credit Pelorm, Direct Export Credit Program, Market Promotion Program. & CCC Transfers to the General Sales Manager. 6/ Includes cash payments only. Excludes payment—in—kind in fiscal 83–85 & generic certificates in fiscal 86–90. E = Estimated in the fiscal 1992 President's Budget based on November, 1990 supply & damand estimates. Minus (-) indicates a net receipt (excess of repsyments or other receipts over gross outlays of funds).

Information contact: Richard Pazdalaid (202) 447-5148.

Food Expenditures

Table 38.—Food Expenditure Estimates

	Annual				1990		1990 year-to-date			
	1988	1989	1990 P	Oct	Nov P	Dec P	Oct	Nov P	Dec P	
				\$ bil	llon					
Sales 1/ Off-premise use 2/ Meals & snacks 3/	257.881 196,630	278.244 203.599	290,730 213,639	24.1 17.9	24.3 17.2	26.3 17.7	240.1 178.7	264.4 195.9	290.7 213.6	
Sales 1/				1986	\$ billion					
Off-premise use 2/ Meals & snacks 3/	273,947 202,533	276.372 203,565	272.788 203,956	22.4 18.9	22.6 16.2	24.4 16.6	225.8 178.7	248.3 195.9	272.8 213.6	
			P	ercent chan	ge from yea l	r earlier (\$ bi	l.)			
Sales 1/ Off-premise use 2/ Meals & enacks 3/	4.9 9.7	7.1 5.1	5.2 4.9	5.9 3.8	5.0 5.0	2.9 3.9	5.5 5.0	5.5 5.0	5.2 4.9	
			Pe	ercent chan	ge from year	earlier (198	9 \$ bil.)			
Sales 1/ Off-premies use 2/ Meals & snacks 3/	0.3 3.8	0.9 0.5	-1.3 0.2	0.2 -0.7	-1 9 0.4	0.6 -0.6	-1.1 0.2	-1.2 0.3	-1.3 0.2	

1/ Food only (excludes alcoholic beverages). Not seasonally adjusted. 2/ Excludes donations & home production. 3/ Excludes donations, child nutrition subsidies, & meals furnished to employees, patients, & inmates. P = preliminary.

NOTE: This table differs from Personal Consumption Expenditures (PCE), table 2, for several reasons: (1) this series includes only food not alcoholic beverages & pet food which are included in PCE: (2) this series is not seasonally adjusted, whereas PCE is seasonally adjusted at annual rates: (3) this series reports sales only. but PCE includes food produced & consumed on farms & food furnished to employees: (4) this series includes all sales of meals & snacks. PCE includes only purchases using personal funds, excluding business travel & entertainment. For a more complete discussion of the differences, see "Developing an Integrated Information System for the Food Sector, "Agr.,—Econ. Rpt. No. 575, Aug 1987.

Information contact: Alden Manchester (202) 219-0880.

Transportation

Table 39.—Rail Rates; Grain & Fruit/Vegetable Shipments

	Annual			1989		1990					
	1987	1988	1989	Oct	May	June	July	Aug	Sept	Oct	
Rail freight rate index 1/ {Dec. 1984=100}											
All products Farm products Grain	100.1 99.3 98.7	104.8 105.6 105.4	108.4 108.4 108.7	106 8 108.2 108.1	107.1 109.9 109.7	107.1 109.5 109.2	107.0 P 109.5 P 109.0 P	107.1 P 110.7 P 110.5 P	107.1 P 111.7 P 111.0 P	107.9 P 112.1 P 111.4 P	
Food products Grain shipments	8.89	103.2	103.9	104.1	105.2	104.9	104.3 P	104.4 P	104 4 P	105.5 P	
Raif carloadings (1,000 cars) 2/ Fresh fruit & vegetable shipments	29.0	30.7	28.4	29.0	25.8 P	27.9 P	25.6 P	26.6 P	24.9 P	27.1 P	
Piggy back (1,800 cwt) 3/4/ Bail (1,000 cwt) 3/4/ Truck (1,000 cwt) 3/4/	588 560 9,137	535 607 9.679	504 599 9.738	408 480 9,121	596 590 11,646	572 802 12.749	438 414 9,981	338 183 9.038	409 394 8,669	320 423 9.082	
Cost of operating trucks hauling produce 5/ Owner operator (cts /mile)	440.0	440.7	40.4			400.4	100.0				
Fleet operation (cts./mile)	116.3 116.5	118.7 118.4	124.1 123.4	125.5 124.5	127.2 126.7	126.4 125.8	126.8 126.7	133.9 135.5	135.4 135.1	138.2 137.5	

^{1/} Department of Labor, Bureau of Labor Statistics, 2/ Weekly average; from Association of American Railroads, 3/ Weekly average; from Agricultural Marketing Service, USDA, 4/ Preliminary data for 1989 & 1990. 5/ Office of Transportation, USDA, P = preliminary.

Information contact: T.Q. Hutchinson (202) 219-0840.

Indicators of Farm Productivity

Table 40.—Indexes of Farm Production, Input Use, & Productivity_

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990 2/				
	1977=100													
Farm output	118	116	96"	112	118	111	110	102	114	117				
All live stock products 3/	109	107	109	107	110	110	113	116	116	117				
Meat animale	108	101	104	101	102	100	102	105	104	101				
Dairy products	108	110	114	110	117	116	116	118	117	120				
Poultry & eggs	119	119	120	123	128	133	144	148	153	166				
All crops 4/	117	117	88	111	118	109	108	92	107	112				
Feed grains	121	122	67	116	134	123	108	°73′	108	112				
Hay & forage	106	109	100	107	106	106	102	89	101	101				
Food grains	144	138	117	129	121	107	107	98	107	136				
Sugar crops	107	96	93	95	97	108	111	105	105	108				
Cotton	109	85	55	91	94	69	103	107	86	102				
Tobacco	108	104	75	90	81	63	62	72	71	84				
Oil crops	114	121	91	106	117	110	108	89	106	102				
Cropland used for crops	102	101	88	99	98	94	88	86	90	_				
Crop production per acre	115	116	100	112	120	116	123	107	119					
Farm input 5/	102	99	96	96	92	89	89	.87	88					
Farm real estate	104	102	101	99	97	96	95	94	96	_				
Mechanical power & machinery	98	92	89	86	80	77	73	72	73	-				
Agricultural chemicals	129	118	402	120	115	109	111	111	122					
Feed, seed, & livestock														
purchases	108	107	103	106	102	110	117	110	119					
Farm output per unit of input	116	117	99	117	128	124	124	117	128	-				
Output per hour of labora														
Farm 6/	123	125	99	121	139	139	142	134	148					
Nonfarm 7/	100	99	102	105	108	108	109	111	112	_				

1/ For historical data & indexes, see Economic Indicators of the Farm Sector: Production & Efficiency Statistics, 1986, ECIFS 5–6. 2/ Preliminary indexes for 1990 based on Crop Production: 1990 Summary, released in January 1991, & unpublished data from the Agricultural Statistics Board, NASS. 3/ Gross livestock production includes minor livestock products not included in the separate groups shown. It cannot be added to gross crop production to compute farm output. 4/ Gross crop production includes some miscellaneous crops not in the separate groups shown. It cannot be added to gross livestock production to compute farm output. 5/ Includes other items not included in the separate groups shown: 6/ Economic Research Service. 7/ Bureau of Labor Statistics. — = not available.

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